1/15 **POLYMORPHISMS IN THE IL4R\alpha GENE** (Accession No. AC004525)

TGTGAGCTAC	TGTGTCTGGC	CTGAATAATA	AAATTTAAAA	CAATTTTTCA	-
AAAATTCACC	ATGAGGTCTC	ACTATATTCC	CTAGGCTGGT	CTCAAACCCC	30100
TGGACTCCAA	GTGATCCACC	CCACCTTCCC	GAGTAGCTGG	GACTAGAGAT	
GCACACCATT	GCACCCAATA	GAGCAATACG	TTTCTGTTCT	TTGTAAATTA	30200
CCTGCTCTAA	GGTATTTTTG	TTATAGCAGC	CTATATGGAC	TAAGCTGACT	
TGTAACGTTA	CTTGAGACTT	TAAAGTGTTC	CGGTCACTGT	TGGAGGGCTC	30300
TGTCTGTGTT	AGCTCATTTA	ATCCCCACAA	CACCTCAATC	AGATGGGGCT	
ATTCTTAGTC	CCACTTTATA	GATAAGGAAA	CTGAGGCATG	GAAGCACAGC	30400
TTGCTCAAGG	TTCACATCTA	GTCAGTGACA	GAGCAGGTAT	TTAAACCTCA	
GGAAATAATC	AGAGAAACAT	GTGTAGAGGG	TTGTCCAAGG	AAGGCCACAT	30500
CCAGAAGCAT	CTCCCAGGAC	AGTTGTTGTG	TAGCTCACCC	TCTGGACTTT	
GTGGGTCTGG	GTGTTGTTTC	ATGATTATAG	AGAGAGCTCT	GTGAACGTGG	30600
AGGACCTGTT	GTCGGCAGAG	ACACAAATGG	CCAGGGCATG	GCTGGGCAGC	
CGCAGTGGCT	CAGGCCTGTA	ATCCCAGCAC	TTCGAGAAGA	CCAGAGGGGC	30700
AGATCATGAG	GTCAGAAGTT	CAAGACCAGC	CTGGCCAACA	TGGTGAAACC	
CCGTCTCTAC	TAAAAATACA	AAAATTAGCC	AGGTGTGGTG	GTGGGCACCT	30800
GTAATCCCAG	CTACTCGGGA	GGCTGAGGCA	GAAGAATCGC	TTGAACCCGG	
GAGGTGGAGG	TTGCAGTGAG	CTGAGATTGC	ACCACTGCAC	TCCAGCCTTG	30900
GAGG1GGAGG	TIGCAGIGAG	010/10/11100	G	20011000	
GAGACAGAGC	GAGACTCTGT	CTCGGAAAAA	CAAACAAACA	AGCAAACAAA	
CAAACAAATA	AATGGCCAGG	GCAGGGGAGG	GTTGCATATT	GAATAAGATG	31000
AGCTCTGCTG	GAAGCACAGG	TCAGCACTAA	CCTGCTTCCT	CTCTCTCTGC	
AGCTCTGCTG		ATGGGGTGGC	TTTGCTCTGG	GCTCCTGTTC	31100
	3: 31071	71100001000	1110010100	3010010110	
CCTGTGAGCT	GCCTGGTCCT	CCTCCACCTC	GCAAGCTCTG	GTAAGTCACC	
CCIGIGAGCI			00111001010	01111010111	
	3 1 1	401			
ACTTCTCAAT	311		ATGGCGTGCC	AGGGTCCTGC	31200
ACTTCTCAAT AGTATGTCAC	CATTCATTTG	TTGGCTATTA		AGGGTCCTGC AGGGGACAGC	31200
AGTATGTCAC	CATTCATTTG CTGGCCTTAT		ATGGCGTGCC CTGCAGTGGG TTCTAAAGAT		31200 31300
AGTATGTCAC CAATGACAAG	CATTCATTTG CTGGCCTTAT TGGCCCTGAT	TTGGCTATTA GGAGATTACA	CTGCAGTGGG	AGGGGACAGC	
AGTATGTCAC CAATGACAAG TGATGGGAGC	CATTCATTTG CTGGCCTTAT TGGCCCTGAT CGGGTGCAGT	TTGGCTATTA GGAGATTACA TATCAGTAAA GGCTCACACC	CTGCAGTGGG TTCTAAAGAT TGTAATCCCA	AGGGGACAGC TGTTAGAAAG	
AGTATGTCAC CAATGACAAG TGATGGGAGC AGGCCGAGGC	CATTCATTTG CTGGCCTTAT TGGCCCTGAT CGGGTGCAGT AGGAGGATCG	TTGGCTATTA GGAGATTACA TATCAGTAAA GGCTCACACC CTTGAGCCCA	CTGCAGTGGG TTCTAAAGAT	AGGGGACAGC TGTTAGAAAG GCACTTCAGG	31300
AGTATGTCAC CAATGACAAG TGATGGGAGC AGGCCGAGGC GCAACATAGG	CATTCATTTG CTGGCCTTAT TGGCCCTGAT CGGGTGCAGT AGGAGGATCG GAGACCTTGT	TTGGCTATTA GGAGATTACA TATCAGTAAA GGCTCACACC CTTGAGCCCA CTCTACAAAT	CTGCAGTGGG TTCTAAAGAT TGTAATCCCA GGAGTTCGAG	AGGGGACAGC TGTTAGAAAG GCACTTCAGG GTCAGCTTGG	31300
AGTATGTCAC CAATGACAAG TGATGGGAGC AGGCCGAGGC GCAACATAGG TGGCAGTGCA	CATTCATTTG CTGGCCTTAT TGGCCCTGAT CGGGTGCAGT AGGAGGATCG GAGACCTTGT CGCCTGTAGC	TTGGCTATTA GGAGATTACA TATCAGTAAA GGCTCACACC CTTGAGCCCA CTCTACAAAT CCCAGCTACT	CTGCAGTGGG TTCTAAAGAT TGTAATCCCA GGAGTTCGAG AATAAAATAT	AGGGGACAGC TGTTAGAAAG GCACTTCAGG GTCAGCTTGG TAGCCAGGTG	31300 31400
AGTATGTCAC CAATGACAAG TGATGGGAGC AGGCCGAGGC GCAACATAGG TGGCAGTGCA ATCCCTTGAA	CATTCATTTG CTGGCCTTAT TGGCCCTGAT CGGGTGCAGT AGGAGGATCG GAGACCTTGT CGCCTGTAGC CTCAGGAGGT	TTGGCTATTA GGAGATTACA TATCAGTAAA GGCTCACACC CTTGAGCCCA CTCTACAAAT CCCAGCTACT CAAGGCTGCA	CTGCAGTGGG TTCTAAAGAT TGTAATCCCA GGAGTTCGAG AATAAAATAT CAGGAGGCCG GTGAACTGTG	AGGGGACAGC TGTTAGAAAG GCACTTCAGG GTCAGCTTGG TAGCCAGGTG AGGTGGGAGG	31300 31400
AGTATGTCAC CAATGACAAG TGATGGGAGC AGGCCGAGGC GCAACATAGG TGGCAGTGCA ATCCCTTGAA TCCACTCCAG	CATTCATTTG CTGGCCTTAT TGGCCCTGAT CGGGTGCAGT AGGAGGATCG GAGACCTTGT CGCCTGTAGC CTCAGGAGGT CCTGCGTGAG	TTGGCTATTA GGAGATTACA TATCAGTAAA GGCTCACACC CTTGAGCCCA CTCTACAAAT CCCAGCTACT CAAGGCTGCA AAAGTGAGAC	CTGCAGTGGG TTCTAAAGAT TGTAATCCCA GGAGTTCGAG AATAAAATAT CAGGAGGCCG	AGGGGACAGC TGTTAGAAAG GCACTTCAGG GTCAGCTTGG TAGCCAGGTG AGGTGGGAGG ATCGCGCCAC	31300 31400 31500
AGTATGTCAC CAATGACAAG TGATGGGAGC AGGCCGAGGC GCAACATAGG TGGCAGTGCA ATCCCTTGAA TCCACTCCAG GGTGATGGG	CATTCATTTG CTGGCCTTAT TGGCCCTGAT CGGGTGCAGT AGGAGGATCG GAGACCTTGT CGCCTGTAGC CTCAGGAGGT CCTGCGTGAG AAAGAACACA	TTGGCTATTA GGAGATTACA TATCAGTAAA GGCTCACACC CTTGAGCCCA CTCTACAAAT CCCAGCTACT CAAGGCTGCA AAAGTGAGAC GAACAGCATA	CTGCAGTGGG TTCTAAAGAT TGTAATCCCA GGAGTTCGAG AATAAAATAT CAGGAGGCCG GTGAACTGTG CCTGTCAAAA	AGGGGACAGC TGTTAGAAAG GCACTTCAGG GTCAGCTTGG TAGCCAGGTG AGGTGGGAGG ATCGCGCCAC AAAAAGAGAA	31300 31400 31500
AGTATGTCAC CAATGACAAG TGATGGGAGC AGGCCGAGGC GCAACATAGG TGGCAGTGCA ATCCCTTGAA TCCACTCCAG GGTGATGGGG GGTGGAGTGG	CATTCATTTG CTGGCCTTAT TGGCCCTGAT CGGGTGCAGT AGGAGGATCG GAGACCTTGT CGCCTGTAGC CTCAGGAGGT CCTCAGGAGGT CCTGCGTGAG AAAGAACACA GGGGGGATTGC	TTGGCTATTA GGAGATTACA TATCAGTAAA GGCTCACACC CTTGAGCCCA CTCTACAAAT CCCAGCTACT CAAGGCTGCA AAAGTGAGAC GAACAGCATA AGTTGAAAGT	CTGCAGTGGG TTCTAAAGAT TGTAATCCCA GGAGTTCGAG AATAAAATAT CAGGAGGCCG GTGAACTGTG CCTGTCAAAA AGAGGGGGTT	AGGGGACAGC TGTTAGAAAG GCACTTCAGG GTCAGCTTGG TAGCCAGGTG AGGTGGGAGG ATCGCGCCAC AAAAAGAGAA GGGGAAGCTG	31300 31400 31500 31600
AGTATGTCAC CAATGACAAG TGATGGGAGC AGGCCGAGGC GCAACATAGG TGGCAGTGCA ATCCCTTGAA TCCACTCCAG GGTGATGGGG GGTGGAGTGG CATTGAGCTG	CATTCATTTG CTGGCCTTAT TGGCCCTGAT CGGGTGCAGT AGGAGGATCG GAGACCTTGT CGCCTGTAGC CTCAGGAGGT CCTGCGTGAG AAAGAACACA GGGGGATTGC ACTTGGAGGA	TTGGCTATTA GGAGATTACA TATCAGTAAA GGCTCACACC CTTGAGCCCA CTCTACAAAT CCCAGCTACT CAAGGCTGCA AAAGTGAGAC GAACAGCATA AGTTGAAAGT AGCGGGAACC	CTGCAGTGGG TTCTAAAGAT TGTAATCCCA GGAGTTCGAG AATAAAATAT CAGGAGGCCG GTGAACTGTG CCTGTCAAAA AGAGGGGGTT AGGGAAGTCA GTGCAGATGT	AGGGGACAGC TGTTAGAAAG GCACTTCAGG GTCAGCTTGG TAGCCAGGTG AGGTGGGAGG ATCGCGCCAC AAAAAGAGAA GGGGAAGCTG GGGAAGCCT CTGGGGAAGG	31300 31400 31500 31600
AGTATGTCAC CAATGACAAG TGATGGGAGC AGGCCGAGGC GCAACATAGG TGGCAGTGCA ATCCCTTGAA TCCACTCCAG GGTGATGGGG GGTGATGGGG CATTGAGCTG CTCATTCTTG	CATTCATTTG CTGGCCTTAT TGGCCCTGAT CGGGTGCAGT AGGAGGATCG GAGACCTTGT CGCCTGTAGC CTCAGGAGGT CCTGCGTGAG AAAGAACACA GGGGGATTGC ACTTGGAGGA GCAGAGAGGC	TTGGCTATTA GGAGATTACA TATCAGTAAA GGCTCACACC CTTGAGCCCA CTCTACAAAT CCCAGCTACT CAAGGCTGCA AAAGTGAGAC GAACAGCATA AGTTGAAAGT AGCGGGAACC CCTGCACTGA	CTGCAGTGGG TTCTAAAGAT TGTAATCCCA GGAGTTCGAG AATAAAATAT CAGGAGGCCG GTGAACTGTG CCTGTCAAAA AGAGGGGGTT AGGGAAGTCA GTGCAGATGT GCCTGGCGGG	AGGGGACAGC TGTTAGAAAG GCACTTCAGG GTCAGCTTGG TAGCCAGGTG AGGTGGGAGG ATCGCGCCAC AAAAAGAGAA GGGGAAGCTG GGGAAGGCT CTGGGGAAGG AGGGTTGAGC	31300 31400 31500 31600 31700
AGTATGTCAC CAATGACAAG TGATGGGAGC AGGCCGAGGC GCAACATAGG TGGCAGTGCA ATCCCTTGAA TCCACTCCAG GGTGATGGGG GGTGATGGGG CATTGAGCTG CTCATTCTTG ACAGGAGGGA	CATTCATTTG CTGGCCTTAT TGGCCCTGAT CGGGTGCAGT AGGAGGATCG GAGACCTTGT CGCCTGTAGC CTCAGGAGGT CCTGCGTGAG AAAGAACACA GGGGGATTGC ACTTGGAGGA GCAGAGAGGC ATGTGGTGGA	TTGGCTATTA GGAGATTACA TATCAGTAAA GGCTCACACC CTTGAGCCCA CTCTACAAAT CCCAGCTACT CAAGGCTGCA AAAGTGAGAC GAACAGCATA AGTTGAAAGT AGCGGGAACC CCTGCACTGA GGAGAGTGAG	CTGCAGTGGG TTCTAAAGAT TGTAATCCCA GGAGTTCGAG AATAAAATAT CAGGAGGCCG GTGAACTGTG CCTGTCAAAA AGAGGGGGTT AGGGAAGTCA GTGCAGATGT GCCTGGCGGG CAGCAGGAGG	AGGGGACAGC TGTTAGAAAG GCACTTCAGG GTCAGCTTGG TAGCCAGGTG AGGTGGGAGG ATCGCGCCAC AAAAAGAGAA GGGGAAGCTG GGGAAGGCCT CTGGGGAAGG AGGGTTGAGC GAGCAGTGAA	31300 31400 31500 31600 31700
AGTATGTCAC CAATGACAAG TGATGGGAGC AGGCCGAGGC GCAACATAGG TGGCAGTGCA ATCCCTTGAA TCCACTCCAG GGTGATGGGG GGTGGAGTGG CATTGAGCTG CTCATTCTTG ACAGGAGGGA GGTCAGCAAG	CATTCATTTG CTGGCCTTAT TGGCCCTGAT CGGGTGCAGT AGGAGGATCG GAGACCTTGT CGCCTGTAGC CTCAGGAGGT CCTCAGGAGGT CCTGCGTGAG AAAGAACACA GGGGGATTGC ACTTGGAGGA GCAGAGAGGC ATGTGGTGGA GTGACAGAGT	TTGGCTATTA GGAGATTACA TATCAGTAAA GGCTCACACC CTTGAGCCCA CTCTACAAAT CCCAGCTACT CAAGGCTGCA AAAGTGAGAC GAACAGCATA AGTTGAAAGT AGCGGGAACC CCTGCACTGA GGAGAGTGAG GGAGAGTGAG GGAGAGTGAG GGCTGAATCA	CTGCAGTGGG TTCTAAAGAT TGTAATCCCA GGAGTTCGAG AATAAAATAT CAGGAGGCCG GTGAACTGTG CCTGTCAAAA AGAGGGGGTT AGGGAAGTCA GTGCAGATGT GCCTGCCGGG CAGCAGGAGG AAAAAGACCT	AGGGGACAGC TGTTAGAAAG GCACTTCAGG GTCAGCTTGG TAGCCAGGTG AGGTGGGAGG ATCGCGCCAC AAAAAGAGAA GGGGAAGCTG GGGAAGGCT CTGGGGAAGG AGGGTTGAGC GAGCAGTGAA TGCAGTGTT	31300 31400 31500 31600 31700 31800
AGTATGTCAC CAATGACAAG TGATGGGAGC AGGCCGAGGC GCAACATAGG TGGCAGTGCA ATCCCTTGAA TCCACTCCAG GGTGATGGGG GGTGGAGTGG CATTGAGCTG CTCATTCTTG ACAGGAGGGA GGTCAGCAAG GGTCAGCAAG	CATTCATTTG CTGGCCTTAT TGGCCCTGAT CGGGTGCAGT AGGAGGATCG GAGACCTTGT CGCCTGTAGC CTCAGGAGGT CCTCAGGAGGT AAAGAACACA GGGGGATTGC ACTTGGAGGA GCAGAGAGGC ATGTGGTGGA GTGACAGAGT TCCATATCAT	TTGGCTATTA GGAGATTACA TATCAGTAAA GGCTCACACC CTTGAGCCCA CTCTACAAAT CCCAGCTACT CAAGGCTGCA AAAGTGAGAC GAACAGCATA AGTTGAAAGT AGCGGGAACC CCTGCACTGA GGAGAGTGAG GGAGAGTGAG GGCTGAATCA CCATTATGTT	CTGCAGTGGG TTCTAAAGAT TGTAATCCCA GGAGTTCGAG AATAAAATAT CAGGAGGCCG GTGAACTGTG CCTGTCAAAA AGAGGGGGTT AGGGAAGTCA GTGCAGATGT GCCTGGCGGG CAGCAGGAGG AAAAAGACCT CCAAAGGACT	AGGGGACAGC TGTTAGAAAG GCACTTCAGG GTCAGCTTGG TAGCCAGGTG AGGTGGGAAGAAAAAAGAGAA GGGGAAGGCCT CTGGGGAAGG AGGGTTGAGC AGGCAGTGAA TGCAGTGTT CTTCAGGATG	31300 31400 31500 31600 31700 31800
AGTATGTCAC CAATGACAAG TGATGGGAGC AGGCCGAGGC GCAACATAGG TGGCAGTGCA ATCCCTTGAA TCCACTCCAG GGTGATGGGG GGTGGAGTGG CATTGAGCTG CTCATTCTTG ACAGGAGGGA GGTCAGCAAG GGTCAGCAAG GAGCAGAGGA CCGTGTGGAG	CATTCATTTG CTGGCCTTAT TGGCCCTGAT CGGGTGCAGT AGGAGGATCG GAGACCTTGT CGCCTGTAGC CTCAGGAGGT CCTGCGTGAG AAAGAACACA GGGGGATTGC ACTTGGAGGA GCAGAGAGGC ATGTGGTGGA GTGACAGAGT TCCATATCAT AAAGGAAGAG	TTGGCTATTA GGAGATTACA TATCAGTAAA GGCTCACACC CTTGAGCCCA CTCTACAAAT CCCAGCTACT CAAGGCTGCA AAAGTGAGAC GAACAGCATA AGTTGAAAGT AGCGGGAACC CCTGCACTGA GGAGAGTGAG GGAGAGTGAG GGCTGAATCA CCATTATGTT GGTGGAAGCC	CTGCAGTGGG TTCTAAAGAT TGTAATCCCA GGAGTTCGAG AATAAAATAT CAGGAGGCCG GTGAACTGTG CCTGTCAAAA AGAGGGGGTT AGGGAAGTCA GTGCAGATGT GCCTGGCGGG CAGCAGGAGG AAAAAGACCT CCAAAGGACT AGGAGGTCTG	AGGGGACAGC TGTTAGAAAG GCACTTCAGG GTCAGCTTGG TAGCCAGGTG AGGTGGGAGG ATCGCGCCAC AAAAAGAGAA GGGGAAGCTG GGGAAGGCT CTGGGGAAGG AGGGTTGAGC GAGCAGTGAA TGCAGTGTT CTTCAGGATG GAGGGAGGTC	31300 31400 31500 31600 31700 31800 31900
AGTATGTCAC CAATGACAAG TGATGGGAGC AGGCCGAGGC GCAACATAGG TGGCAGTGCA ATCCCTTGAA TCCACTCCAG GGTGATGGGG GGTGGAGTGG CATTGAGCTG CTCATTCTTG ACAGGAGGGA GGTCAGCAAG GAGCAGAGGA CCGTGTGGAG TGGAGTGGAG	CATTCATTTG CTGGCCTTAT TGGCCCTGAT CGGGTGCAGT AGGAGGATCG GAGACCTTGT CGCCTGTAGC CTCAGGAGGT CCTCAGGAGGT CCTGCGTGAG AAAGAACACA GGGGGATTGC ACTTGGAGGA GCAGAGAGGC ATGTGGTGGA GTGACAGAGT TCCATATCAT AAAGGAAGAG GAGATGAGAG	TTGGCTATTA GGAGATTACA TATCAGTAAA GGCTCACACC CTTGAGCCCA CTCTACAAAT CCCAGCTACT CAAGGCTGCA AAAGTGAGAC GAACAGCATA AGTTGAAAGT AGCGGGAACC CCTGCACTGA GGAGAGTGAG GGAGAGTGAG GGCTGAATCA CCATTATGTT GGTGGAAGCC GCTCCGGATC	CTGCAGTGGG TTCTAAAGAT TGTAATCCCA GGAGTTCGAG AATAAAATAT CAGGAGGCCG GTGAACTGTG CCTGTCAAAA AGAGGGGGTT AGGGAAGTCA GTGCAGATGT GCCTGGCGGG CAGCAGGAGG AAAAAGACCT CCAAAGGACT AGGAGGTCTG	AGGGGACAGC TGTTAGAAAG GCACTTCAGG GTCAGCTTGG TAGCCAGGTG AGGTGGGAGG ATCGCGCCAC AAAAAGAGAA GGGGAAGCTG GGGAAGGCT CTGGGGAAGG AGGGTTGAGC GAGCAGTGAA TGCAGTGTT CTTCAGGATG GAGGGAGGTC GTAGATTTGA	31300 31400 31500 31600 31700 31800 31900
AGTATGTCAC CAATGACAAG TGATGGGAGC AGGCCGAGGC GCAACATAGG TGGCAGTGCA ATCCCTTGAA TCCACTCCAG GGTGATGGGG GGTGGAGTGG CATTGAGCTG ACAGGAGGGA GGTCAGCAAG GGTCAGCAAG GGTCAGCAAG GAGCAGAGGA CCGTGTGGAG TGGAGTGGAG	CATTCATTTG CTGGCCTTAT TGGCCCTGAT CGGGTGCAGT AGGAGGATCG GAGACCTTGT CGCCTGTAGC CTCAGGAGGT CCTGCGTGAG AAAGAACACA GGGGGATTGC ACTTGGAGGA GCAGAGAGGC ATGTGGTGGA GTGACAGAGT TCCATATCAT AAAGGAAGAG GAGATGAGGG GAATTGAGGT	TTGGCTATTA GGAGATTACA TATCAGTAAA GGCTCACACC CTTGAGCCCA CTCTACAAAT CCCAGCTACT CAAGGCTGCA AAAGTGAGAC GAACAGCATA AGTTGAAAGT AGCGGGAACC CCTGCACTGA GGAGAGTGAG GGAGAGTGAG GGCTGAATCA CCATTATGTT GGTGGAAGCC GCTCCGGATC GAAAGACAGA	CTGCAGTGGG TTCTAAAGAT TGTAATCCCA GGAGTTCGAG AATAAAATAT CAGGAGGCCG GTGAACTGTG CCTGTCAAAA AGAGGGGGTT AGGGAAGTCA GTGCAGATGT GCCTGGCGGG CAGCAGGAGG AAAAAGACCT CCAAAGGACT AGGAGGTCTG CCTCTGGGAG GAAAGAGACG	AGGGGACAGC TGTTAGAAAG GCACTTCAGG GTCAGCTTGG TAGCCAGGTG AGGTGGGAGG ATCGCGCCAC AAAAAGAGAA GGGGAAGCTG GGGAAGGCT CTGGGGAAGG AGGGTTGAGC GAGCAGTGAA TGCAGTGTT CTTCAGGATG GAGGGAGGTC GTAGATTTGA TGGCCAGGAT	31300 31400 31500 31600 31700 31800 31900 32000
AGTATGTCAC CAATGACAAG TGATGGGAGC AGGCCGAGGC GCAACATAGG TGGCAGTGCA ATCCCTTGAA TCCACTCCAG GGTGATGGGG GGTGAGTGG CATTGAGCTG CTCATTCTTG ACAGGAGGGA GGTCAGCAAG GGTCAGCAAG GAGCAGAGA CCGTGTGGAG TGGAGTGGAG	CATTCATTTG CTGGCCTTAT TGGCCCTGAT CGGGTGCAGT AGGAGGATCG GAGACCTTGT CGCCTGTAGC CTCAGGAGGT CCTGCGTGAG AAAGAACACA GGGGGATTGC ACTTGGAGGA GCAGAGAGGC ATGTGGTGGA GTGACAGAGT TCCATATCAT AAAGGAAGAG GAGATGAGG GAATTGAGGT TTTCTGACCT	TTGGCTATTA GGAGATTACA TATCAGTAAA GGCTCACACC CTTGAGCCCA CTCTACAAAT CCCAGCTACT CAAGGCTGCA AAAGTGAGAC GAACAGCATA AGTTGAAAGT AGCGGGAACC CCTGCACTGA GGAGAGTGAG GGCTGAATCA CCATTATGTT GGTGGAAGCC GCTCCGGATC GAAAGACAGA AAACTACTGG	CTGCAGTGGG TTCTAAAGAT TGTAATCCCA GGAGTTCGAG AATAAAATAT CAGGAGGCCG GTGAACTGTG CCTGTCAAAA AGAGGGGGTT AGGGAAGTCA GTGCAGATGT GCCTGGCGGG CAGCAGGAGG AAAAAGACCT CCAAAGGACT AGGAGGTCTG CCTCTGGGAG GAAAGACAG GAAAGACAG	AGGGGACAGC TGTTAGAAAG GCACTTCAGG GTCAGCTTGG TAGCCAGGTG AGGTGGGAGG ATCGCGCCAC AAAAAGAGAA GGGGAAGCCT CTGGGGAAGG AGGGTTGAGC GAGCAGTGAA TGCAGTGTT CTTCAGGATG GAGGGAGGTC GAGGGAGGTC GTAGATTTGA TGGCCAGGAT GTTGTCATTT	31300 31400 31500 31600 31700 31800 31900 32000
AGTATGTCAC CAATGACAAG TGATGGGAGC AGGCCGAGGC GCAACATAGG TGGCAGTGCA ATCCCTTGAA TCCACTCCAG GGTGATGGGG CATTGAGCTG CTCATTCTTG ACAGGAGGGA GGTCAGCAAG GGTCAGCAAG GGTCAGCAAG GAGCAGAGGA CCGTGTGGAG TGGAGTGGAG	CATTCATTTG CTGGCCTTAT TGGCCCTGAT CGGGTGCAGT AGGAGGATCG GAGACCTTGT CGCCTGTAGC CTCAGGAGGT CCTGCGTGAG AAAGAACACA GGGGGATTGC ACTTGGAGGA GCAGAGAGGC ATGTGGTGGA GTGACAGAGT TCCATATCAT AAAGGAAGAG GAGATGAGAG GAGATGAGG GAATTGAGGT TTTCTGACCT GAAGGATGCC	TTGGCTATTA GGAGATTACA TATCAGTAAA GGCTCACACC CTTGAGCCCA CTCTACAAAT CCCAGCTACT CAAGGCTGCA AAAGTGAGAC GAACAGCATA AGTTGAAAGT AGCGGGAACC CCTGCACTGA GGAGAGTGAG GGAGAGTGAG GGCTGAATCA CCATTATGTT GGTGGAAGCC GCTCCGGATC GAAAGACAGA AAACTACTGG AGAAGAGAAG	TTCTAAAGAT TGTAATCCCA GGAGTTCGAG AATAAAATAT CAGGAGGCCG GTGAACTGTG CCTGTCAAAA AGAGGGGGTT AGGGAAGTCA GTGCAGATGT GCCTGGCGGG CAGCAGGAGG AAAAAGACCT CCAAAGGACT AGGAGGTCTG CCTCTGGGAG GAAAGAGACG GAAAGACGCG GTACTTTGGG	AGGGGACAGC TGTTAGAAAG GCACTTCAGG GTCAGCTTGG TAGCCAGGTG AGGTGGGAGG ATCGCGCCAC AAAAAGAGAA GGGGAAGGCTG CTGGGGAAGG AGGGTTGAGC GAGCAGTGAA TGCAGTGTT CTTCAGGATG GAGGAGGTC GTAGATTTGA TGGCCAGGAT GTTGTCATTT GAGGGGCGGG	31300 31400 31500 31600 31700 31800 31900 32000 32100
AGTATGTCAC CAATGACAAG TGATGGGAGC AGGCCGAGGC GCAACATAGG TGGCAGTGCA ATCCCTTGAA TCCACTCCAG GGTGATGGGG GATGAGCTG CATTCATG ACAGGAGGGA GGTCAGCAAG GGTCAGCAAG GGTCAGCAAG GAGCAGAGGA CCGTGTGGAG TGGAGTGGAG	CATTCATTTG CTGGCCTTAT TGGCCCTGAT CGGGTGCAGT AGGAGGATCG GAGACCTTGT CGCCTGTAGC CTCAGGAGGT CCTGCGTGAG AAAGAACACA GGGGGATTGC ACTTGGAGGA GCAGAGAGGC ATGTGGTGGA GTGACAGAGT TCCATATCAT AAAGGAAGAG GAGATGAGAG GAGATGAGGT TTTCTGACCT GAAGGATGCC TAGTTTTGGA	TTGGCTATTA GGAGATTACA TATCAGTAAA GGCTCACACC CTTGAGCCCA CTCTACAAAT CCCAGCTACT CAAGGCTGCA AAAGTGAGAC GAACAGCATA AGTTGAAAGT AGCGGGAACC CCTGCACTGA GGAGAGTGAG GGCTGAATCA CCATTATGTT GGTGGAAGCC GCTCCGGATC GAAAGACAGA AAACTACTGG AGAAGAGAAG	CTGCAGTGGG TTCTAAAGAT TGTAATCCCA GGAGTTCGAG AATAAAATAT CAGGAGGCCG GTGAACTGTG CCTGTCAAAA AGAGGGGGTT AGGGAAGTCA GTGCAGATGT GCCTGGCGGG CAGCAGGAGG AAAAAGACCT CCAAAGGACT AGGAGGTCTG CCTCTGGGAG GAAAGAGACG GAAAGAAGACGCG GTACTTTGGG GCTTGGAATA	AGGGGACAGC TGTTAGAAAG GCACTTCAGG GTCAGCTTGG TAGCCAGGTG AGGTGGGAGG ATCGCGCCAC AAAAAGAGAA GGGGAAGGCTG CTGGGGAAGG AGGGTTGAGC GAGCAGTGTT CTTCAGGATG GAGGGAGGTC GTAGATTTGA TGGCCAGGAT GTTGTCATTT GAGGGGCGGG TTTATTTGCT	31300 31400 31500 31600 31700 31800 31900 32000 32100
AGTATGTCAC CAATGACAAG TGATGGGAGC AGGCCGAGGC GCAACATAGG TGGCAGTGCA ATCCCTTGAA TCCACTCCAG GGTGATGGGG GGTGAGTGGA CATTGAGCTG ACAGGAGGGA GGTCAGCAAG GGTCAGCAAG GGTCAGCAAG GAGCAGAGGA CCGTGTGGAG TGGAGTGGAG	CATTCATTTG CTGGCCTTAT TGGCCCTGAT CGGGTGCAGT AGGAGGATCG GAGACCTTGT CGCCTGTAGC CTCAGGAGGT CCTGCGTGAG AAAGAACACA GGGGGATTGC ACTTGGAGGA GCAGAGAGGC ATGTGGTGGA GTGACAGAGT TCCATATCAT AAAGGAAGAG GAGATGAGG GAGATGAGG GAATTGAGGT TTCTGACCT GAAGGATGCC TAGTTTTGGA GCTCCTTAAC	TTGGCTATTA GGAGATTACA TATCAGTAAA GGCTCACACC CTTGAGCCCA CTCTACAAAT CCCAGCTACT CAAGGCTGCA AAAGTGAGAC GAACAGCATA AGTTGAAAGT AGCGGGAACC CCTGCACTGA GGAGAGTGAG GGCTGAATCA CCATTATGTT GGTGGAAGCC GCTCCGGATC GAAAGACAGA AAACTACTGG AGAAGACAGA ATGGTAAGCC	CTGCAGTGGG TTCTAAAGAT TGTAATCCCA GGAGTTCGAG AATAAAATAT CAGGAGGCCG GTGAACTGTG CCTGTCAAAA AGAGGGGGTT AGGGAAGTCA GTGCAGATGT GCCTGGCGGG CAGCAGGAGG AAAAAGACCT CCAAAGGACT AGGAGGTCTG CCTCTGGGAG GAAAGAAGACGCG GAAAGGACGCG GTACTTTGGG GCTTGGAATA CTTATGCAAG	AGGGGACAGC TGTTAGAAAG GCACTTCAGG GTCAGCTTGG TAGCCAGGTG AGGTGGGAGG ATCGCGCCAC AAAAAGAGAA GGGGAAGCTG GGGAAGGCT CTGGGGAAGG AGGGTTGAGC GAGCAGTGTT CTTCAGGATG GAGGGAGGTC GTAGATTTGA TGGCCAGGAT GTTGTCATTT GAGGGGCGGG TTTATTTGCT TTGTTGTCAG	31300 31400 31500 31600 31700 31800 31900 32000 32100 32200
AGTATGTCAC CAATGACAAG TGATGGGAGC AGGCCGAGGC GCAACATAGG TGGCAGTGCA ATCCCTTGAA TCCACTCCAG GGTGATGGGG GGTGAGGTGGAGTGGA	CATTCATTTG CTGGCCTTAT TGGCCCTGAT CGGGTGCAGT AGGAGGATCG GAGACCTTGT CGCCTGTAGC CTCAGGAGGT CCTCAGGAGGT CCTGCGTGAG AAAGAACACA GGGGGATTGC ACTTGGAGGA GCAGAGAGGC ATGTGGTGGA GTGACAGAGT TCCATATCAT AAAGGAAGAG GAATTGAGGT TTTCTGACCT GAAGGATGCC TAGTTTTGGA GCTCCTTAAC CGTGGCACTG	TTGGCTATTA GGAGATTACA TATCAGTAAA GGCTCACACC CTTGAGCCCA CTCTACAAAT CCCAGCTACT CAAGGCTGCA AAAGTGAGAC GAACAGCATA AGTTGAAAGT AGCGGGAACC CCTGCACTGA GGAGAGTGAG GGCTGAATCA CCATTATGTT GGTGGAAGCC GCTCCGGATC GAAAGACAGA AAACTACTGG AGAAGACAGA ATGGTAAGCC AGCATGGGAG CATGAGATAA ATGGTAAGCC AGCATGGGAG	CTGCAGTGGG TTCTAAAGAT TGTAATCCCA GGAGTTCGAG AATAAAATAT CAGGAGGCCG GTGAACTGTG CCTGTCAAAA AGAGGGGGTT AGGGAAGTCA GTGCAGATGT GCCTGGCGGG CAGCAGGAGG AAAAAGACCT CCAAAGGACT AGGAGGTCTG CCTCTGGGAG GAAAGAGACG GAAAGAAGACGCG GTACTTTGGG GCTTGGAATA	AGGGGACAGC TGTTAGAAAG GCACTTCAGG GTCAGCTTGG TAGCCAGGTG AGGTGGGAGG ATCGCGCCAC AAAAAGAGAA GGGGAAGCCT CTGGGGAAGG AGGGTTGAGC GAGCAGTGAA TGCAGTGTT CTTCAGGATG GAGGGAGGTC GTAGATTTGA TGGCCAGGAT GTTGTCATTT GAGGGGCGGG TTTATTTGCT TTGTTGTCAG CCTGAGTGGT	31300 31400 31500 31600 31700 31800 31900 32000 32100 32200

FIGURE 1A

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ጥ ርርጥርርር እጥር	GCCACTGACA	ACCTACCACC	GCGCTGAAAG	CACAAGGACC	
CCGATGTCTC			CTCTCCCATT	GGCCAAACCC	32500
AACCGGAAAC	TAAAGGCCAA	GGGTĂCCCGG	TGATGAAGAC	TGTGGTATCA	. 32300
GCCTCCTGAG		GCAGAAAGGG	GTGGAGACAA	·	32600
AGATAGTGGG	CACAGAGAGG	AGTGGCACTT	CCCCTAGCTC	GAGGGCAGAG	32000
		ACTCCTTAAA	CTGCTACATA	TTTTCCCTTT	32700
	ATGGAATGGC	GTCAAGTTTG	TGTGAGATAA	AGGTGCACTT	32700
AATTTGGCCA	TGTCTAATGG	CCCCCGCACC	CATGGGTATT	TCTTCAGCTT	32800
GGTTCGTTCT		GCTGGGAAGC	TCCAGCAGCC	CTGGTCCTGG	32000
CCACAGTCAT	CCCGACACTA		TTGCCTGCAC	TGTGCTTTTG	32900
CCCCAGCTCT	GTGGGCGCTG	GCCCTCAACT		ACGCATTGAG	32900
TGCTATTCCC	CTTGGTCCTG	TTTGGGTGCA	AGTCCCCCTC	ACGCATIGAG	
T	COMON COOMO	OMCOMOMOMO	TCCCCAGGGA	7 C 7 E C 7 7 C C E	33000
TTCCTGGGCC	GCTCAGGCTG		TCCCCAGGGA	ACAIGAAGGI	33000
	T [exon			mama ammaaa	
	CCCACCTGCG		CATGAGCATC	TCTACTTGCG	22100
AGTGGAAGAT		ACCAATTGCA		CCGCCTGTTG	33100
TACCAGCTGG		CTCCGAGTAA		GAGCTGGAGG	
	331		С		2222
TTTGGGGAGG		AGGGTTTGCC	CCAAGAGTGA	GCTGGGTCCA	33200
GGTGGTGCGC	TGGAGTGCAG	GATGCTGAGT	ATGGTTTGCT	GCTGTTTATA	
TGGTGTTAGA	GGGGAGGTCC	CATCTCCAGG	GACATGTTAT	GTAAGATACA	33300
GTGGAGCGCA	TGGTGGGAGT	GTTGGTCCAC	GTGGCACATG	GATACGGCTG	
GAATACTGGA	CTAGACCAGC	AGTTCTCACA		TCAGGACCCT	33400
TTTTCACACT	TAAAAATGAG		AAGGGCTTTG	GTGTAGGTAA	
CACATCATTC	TATGTTTACC	TAATTAGAAC	TTGCAATGAA	GAAATGGTGT	33500
AATTTTTAAA	AAATTAAAAC	AATTAAAAAT	TTTTTTTCTT	ACTGAAATGG	
AGGTCTCACT	GTGTTGCCCA		AAACTCCTGG	GCTCCAGTGA	33600
TCCTCCTGCC	TCCGCCTCCC	AAAGTGCTGG	GATTACAAGC	GTGAGCCGCT	
GTATCCGGCC	CAAAATGGAG	AAATTTTAAG	TCCCAACAAC	ATGCAAGCCC	33700
GCATTCAACA	AATCTTCAGA	TCAATTACAT	GATCACAGGT	CATGTAGCCT	
CTAGAAAATT	CCACTGTACG	CCAGTGAGAG	AGAGTGAAAA	GGCAAATAAC	33800
GTCCCTGTAT	TATGATGAAA	AGAGTTTTAC	CTGGTGGGCC	CAGACÇACAC	
TTTGAGAACC	ACTGGACTAG	ACCCTTGATT	GAGGAGTACG	GTGTTGAGAG	33900
TGGAGTCCTC	TGTGATGGTG	GATGGACCAG	GACACATGGC	ATAGGAGTCA	
GGTGGTTCCC	TGGGCTACTC	CATGGTGCAC	AGGATGCTTC	GTTACACTGG	34000
TGCCCAGGAC	$\cdot \texttt{ATAATCACGT}$	ACACAAGACA	CACAGTTACG	GGGCAGACTG	
GGGATATACG	GCACACCAGC	ATGCAGCGTT		GGTGGTATTC	34100
CATGATTATT	CTAAGGTAGA	TGGGCTGTGC	TTTGTTTCCA	TTGGCTTAGT	
CCAGGGATTG	GCAAACTATG	GCCCGTGAGC	CAAATCCGGC	CCACTGCTTG	34200
TTTTTGTAAA	TAAAGTTTTA	TTGGAACACA	CTGGCTGCTG	TAGTTGTAAC	
AGAAACTGCA	TGGCCCTCCT	TTATGTTTTT	TGTTTGTTTG	TTTGTTTGTT	34300
TGTTTTCTTT	GAGACAGAGT	TTCGCTCTTG	TTGCCCAGGC	TGGAGTGCAG	
TGGCACAATC	TCGGCTCACT	GCAACCTCTG	CCTCCCGGGT	TCAAGCGATT	34400
CTCCTGTCTC	AGCCTCCCGA	GTAGTTGGGA	TTAATGGTGC		
ACCCGGCTAA	TTTTTCGTAT	TTTTAGTAGA	GACCGGTTTT	CATCATGTTG	34500
GCCAAGCTGG	TCTCGAACTC	CTGAACTCAG	GTGATCCACC	CGCCTCAGCG	
TCCCAAAGTG	CTGGGATTAC	AGGCATGAGC	CACTGAGCCC	GGCCTCCTCC	34600
	TTGAAATAAT		AAAGTCAAAT	ACTGCATGTT	
CTCACTTATA	AGTAAGAGTT	AAATAATGTG	TACACATGGG	CATTATTCCA	34700
TGTACCATGG	AATAACAGAC	ATTGAAGACT	TGGGAGGGTG	GGAGAGGGGT	
	AAGTTACTTA		TGTACACCAT	TTGGGTGACG	34800
	AACCCCAGAC		GGCAGCATAT	CCAGTGAGAA	
	GCTTGCCATC				34900
			GGAGGCCGAG	GTGGGCAGAT	
			mr iD		

FIGURE 1B

			3/15		
CACTTGAGGT	CAGGAGTTCG		GGCCAACATG	GTGAAGCTCC	35000
ATCTCTACTA	AAAATACAAC	AATTAACTGG	GTGTAGTGGC	GCACACCTGT	
AATCCCAGCT	ACTAGGGAGG	CTGAGGCGGG	AGAATTGCTT	GAGCCCAGGA	35100
GGTGGAGGTT	GCAGTGAGCC	GAGATCACAT	CACTGTACTC	TAGCCTGGGT	
GACAGTGAGA	CTTTGTCTCA	GGAAAAAAAA	ACAAAAACAA	AAAACAAAAA	35200
ACTCGTACCC	CCTAAATTTA	TACAAATAAC	CAAAAAAAAA	AAAAAAAAAG	
GAAATTGTGT	GGCCTTTGAA	GTCCAAAATA	TTAACTATCT	GGCCTGTTAC	35300
AGAAAAAGTT	TGCAGACCCC	TGGCCTAGCC	CGTGAGATGT	GGGTTGGCTG	
TTAAGGTGGA	ACATTGGAAT	TATCTTACGA	TGGCCAAACT	GTGCGATGCA	35400
GAGCTTATGT	TGTTCTAAAT	TAATTAGTGC	CACCGGTTCT	TCCCTTTCAT	
GGGCTTTCAG	GAACAAGCTA	AGTCCCAGGA	CCAGGGCCGG	CAGCTAGGCA	35500
GGTGTGAGGA	GCATCCTTGG	TGCATGTGGT	AAGAGGCTGT	GGCCAGCAAG	
AGAGGCAACC		GCCCCAGCAC	ACCCTGGCCG	CTCCCAAGCC	35600
CCCAGATCTG			AAGCTGGAAG	AGTCTGATGC	
	GGCATGTCCC		GTGGGGCCCA		35700
	CCTAACCCAG		TGCAGAGCCC		
7100107100710	CCITATOCCTIC	0000101010	10011011000	G	
levon	5: 35736			<u> </u>	
		CGGGGTGCGT	CTCCCACCTC	CTCATGGATG	35800
CCCIGAGAAC	T A	CGGGGTGCGT	GIGCCACCIO	010/1100/110	30000
A CCECCECA C		TATACACTGG	A C CTCTCCCC	TGGGCAGCAG	
ACGTGGTCAG		TATACACTGG	ACCIGIGGGC	IGGGCAGCAG	
OHICOHOLICO A	C	CAACCCCACC	CACCAMCCMC	AGCAGGGCGG	35900
CTGCTGTGGA		CAAGCCCAGC	GAGCAIGGIG	AGCAGGGGG	33900
	358	-	7 C7 CCMCCCM	CCCCTCACCC	
	GGGTGGCTGG	GTGTGTTCCC	ACAGCTGCCT	GGGCTGAGGG	
T		amagaama*	7007707007	T	26000
	AGGGGAGGAG	GTGGGGTCAT	AGCAACAGCA	GGAGGAAGCC	36000
Α			CTCCCCCTCC	amacaaaman	
GCCTGTATTT	TCCCAAATCT	GATGGGATTC	CTGCCCCTGC	CTGGGCCTCA	26100
GTCCTCCCAC	CTTTGAAACG	GAGCTGGTCG	CAGTAGACCA	CCAAGCCCCC	36100
TTCAGCCCAG	CTGTTTCCAC	CCCTGAACTT	AAGTGCCCAG	GAAGGCGTAT	2.6000
TGAGATGAGG	TGTGCTTGCT	GGAAGGCATG	CCTGCTGCTG	ATTGAAAACC	36200
GAACTGGGAA	CATTCCTTCC	ATTCTGTGTC	CACTGGTCAG	CTGCTGCGGC	
TTTGGATGGT	CTTGACCGTG	GAAGGCTGAC	CTTCTTCTGG	TACCCGGAGT	36300
CCÇTGCAGGA	ATCCCCCTTG	AGCTTGCTGG	GCTGTGGTGA	CAGGAGTTTA	
AAACATGCGT	TGTATTCCAG			ATCACAGGAA	36400
		GATATGATTG			
		AAAGAAAAAT			36500
		GTGTGAAGGA			•
TTTGAGGCCG	GGTGTGGTGG	TTCATGCCTA	TAATCCCAGC	ACTTTGGGAG	36600
GCCGAGCCCA	GCGGATCACC	GGAGGTCAGG	AGTTCGAGAC	CAGCCTGGAC	
AACATGGTAA	AACCCCGTCT	CTACTAAAAA	TACAAAAAAT	TAGTCTGGCA	36700
TGGTGGCAGG	CGCCTGTAAT	CCCAGCTACT	TGGGAGGCTG	AGGTAGGAGA	
ATGGCTTGAA	CCCAGGAGAA	GGAGGTTGCA	GTGAGCTTAG	ATCATGCTAC	36800
TGCCCTCCAG	CCTGGGCGAC	AGAGTGAGAT	TACGTCTCAA	AAAATAAAA	
		TTTTTAAAAG			36900
		ACTGTAGAAA			
		ATCCCAGCAC			37000
		TATTGAGGCT			
		AACAGAGTGG			37100
		AACACTAAAG			
		TTCTTTGCTA			37200
		AGGTTTTGTC			
				AGTCACTGCA	37300
3010100111	2171000000		DE 1C		

FIGURE 1C

			4/15		
тасатестеа	CATAGAGGCC	GCTTCTCCCG		CAGGGCCCCA	
INORICCION	Cititionicce	A	01101011100		
levon	6: 37334			*	
•	CAGTTCACAC	СААТСТСТСС	GACACTCTGC	TGCTGACCTG	37400
	TATCCCCCTG		GTATAATCAT	CTCACCTATG	
		AACGACCCGG		TGGGCATGCT	37500
CAGICAACAI	IIGGNOIGM	T	0/10/11010/10	10000111001	
	374				
TTGACGTTTT		CTGGGGAACA	CCCTCCCTCA	CCAGCAGAGG	
IIGACGIIII	TCTGTGACCT	CIGGGGIRICII	00010001011		
СССЛСТСССТ	GGAGCCAGGA	GCCTGGGAGG	CAAGCCCTGG	GGCTGGATAG	37600
CCCAGICCCI	GGAGCCAGGA	00010001100	T	A	• • • • • • • • • • • • • • • • • • • •
CNNNTCCCNC	GAGCTAGAGA	ССТСССТТСТ	CACCTGGCTC	TGCCCTAGGC	
T	GAGCIAGAGA	CCIOGCIICI	Cricciddoid	A	
_	CCTTCCTCCC	CCCCCACCCC	TCACATCAGA		37700
AAGICCCIII	GCTTCCTGGC	Т	10/10/110/10/1	011100001101	0,,00
TATCTCTGCA	TCCCCCTCCT	CCTCTGTAAA	GGTAGGGCTG	TGGGCCACAT	
CTGTGTTTCC			ATCGTAGGTG	GCACATTGAC	37800
AGCTCACTTG		TTATTGAAGA	GAATAATACT	GACTCAAGAG	3,000
ACAGTGACCC		CCTTTTGAGG	CCAACGGGTT	AAGGAGGAAG	37900
TCCCCATACA		TTACTAATTC	CTCTTAATGA		37300
	CAGGCTTAGA	CTTTCCCAAG	AAAACAAGAT	CAGTTTGTTG	38000
GTTGTTCCCC		GTCCTGACAT	TCCCTTCACA		50000
		GTTTTGAGAC	AGAGTCTCAC	TCTGTCACCC	38100
TGGAGTTTTT	GTTGTTGTTT	GATCTTGGCT	CACTGCAACC	TCCGCCTCCT	30100
AGGGTGGAAC			CTGAGCAGCC	GGGACTACAG	38200
GGGTTCTAGC		CCTCAGCCTC	TATATTTAGT	AGAGATGGGG	30200
	CCGTGCCCAG	CTAATTTTTG		CAGATGATCC	38300
TTTCACTGCG	TTGGCCAGGC	TGGTCTCAAA	CTCCTGACCT	AGCCACCGCA	36300
	GCCTCCCAAA	GTGCTGGGAT	TACAGGTGTG TGTATTGACA	TCTTTAAAAA	38400
CCTGGCCAGT		CTTAAGTACA	TCAGTAATGG	CAGGGGCCGT	30400
	ATTTACAGGA				38500
CCACAGTGGG	TGGCTGAGTC	CCCCTATTTT	TCTGCTGGTG	TGCAGGGAGG	36300
TCATTTCCTG		TTCCCCACC	TGAATCCACC	TTCCTCACAT GTCCCACAGG	38600
	GGGACAATCT	CTGGACATAT	GGGACCTGGG		30000
	AATGCCTGCT	GTGCCACTCG	CCAGCTGTGT CCTCATCTGT	GATGTTGGGC AACACAGGAG	38700
	ACCTCTTTGT	GCCTCAGTTT	CAGTACAAGG	TGTGTGATAC	36700
	ACCCGCCCAC	AGGGCTATGA		CATGTGCCCT	38800
		CCCACATGTG		CGCTGTCCCA	30000
	TGCCCCAGGC	CACAGAGATC TCCTTGAGGT	TTGTGAGGGC		38900
	TGTCATTTGT			AGCAGGCACC	30900
	GCCCAGGCTG				39000
	AGCTCCCATG		TCACTGCTTC		39000
	GGGGTGTCGA		TCAGGTCTGG		39100
		GAAAGAGCAG			39100
	CTCAGAAAGC			GTGCACAGAT	39200
	GGGGCAAGTT	TTGTTTGGTC			39200
CCCAGGCCTG		ACAGAGAGTC	CCAAGGATGG		20200
	ACCACCTTCA				39300
		AGGCATGGCT	GGATCCAGCT		20400
TGTCCAGCTC	TGCGCCCTGC				39400
GGCTCTTCCC	TCATGTAGTG			CTCCAGGCCT	20500
	GCCACAGTGG			ACGGTTCTAA	39500
	AAGGCTGCTG				20.000
CCTCTGAACC	AATCACTGGC	TGTGGGTGGA	GAGAGGGTGC	TGGTGGAGGG	39600

FIGURE 1D

			5/15		
CCCTGCTTGT	CCAGGGAGGA	GTCACATACC	TGCCTCTAGG	GCTGCAGGTG	
GGCTCAGCTC	CATCCAAACC	AGATGAACTG	AAAATAAGGC	AGGAGTGGCT	39700
TCCCCAGGGG	AAACTGGGGA	AGAGGAAGCA	GGACTGTGCT	GGCTAAAATG	
CCAGCCAGGT	TTAAGACGTG	GCACCAGATG	CCAGTCATGG	GATTGGATTG	39800
GTCAGCATGC	CTGGGCTATG	GCTTAGGGGT	ATGTTGGTGC	TCAGGGATGC	
CACAGGCCTC	CAGATACCAG	GTCTGAGGCA	GAAGAATGAA	GTCCAGCTTC	39900
TCTTGTGGGT	GGAACAGTGG	CAACTGAGAT	ACCCCATCTC	TCCCTTCCCA	
AGAACAGAGC	TGAACATAAA	GAATTTAGTG	ATTGGCCAGA	GCTTGGCCAC	40000
ATGCTCCCCT	CTGATGAATG	ATAGGCCAGG	TGATGGGATT	GGCACAATTG	
GCTTAGACTA	ATGAGGGTTG	GCCCTGGAGT	TGCAGGCAGT	GGAGTTCTGT	40100
CCTAAGCAGT	GGGCACCTAA	ACCCGATGGC	ATAAAAGCTG	GGCGGGTGTC	
CACCTGCATC	TGCCACAGCA	CTATAGGCAC	CAACTGTGGC	TCATACTGAG	40200
TGGGATAAAT	TCCAGAAAGA	AACATTAGGA		GAATTTTGGG	
GCTAGAGCTA	CTCATTCATT	CCCCTAGATA	ATTTCTAGGC	AAGGTTCCAT	40300
AGTGGAGGGG	GAGTTTTGGC	TTGGGCATTG	AAGGATGCAT	AGGAGTTTTC	
TAGATGGGGA	AAGAAGGGAA	CGGTAGACCA	GGCAGAGGGA	ACTGCATGAT	40400
AAAAGGTTTA	TGGGTGTGAA	AATTCATGGA		ATTATGGGGT	
TGGGGGATGT	GGGAATATGT	GTAGCGATAA	AGCACCAAAC	AAAGCCAAAA	40500
GTTTAGTTAG	AGCCCTGAAT	GCCTGCCTCA	TAATGGTTTC	CATATTTTAT	
ATGCCTACTA	TGTGCCAGGC	ACATTGCTCA	GGGTCACACA	GCTGGAAATG	40600
GCAGGGCTGA	GTTTTTGTTG	TTGTTGTTGT	TGTTGAGACA	GAGTCTCACT	1000
CTATCACCCA	GGCTGGAATG	CAGGGGCGTG	ATCATGGCTC	ACTGCATCCT	40700
TGACTTCCTG	GGATCAGGTG	ATTCTCCCAC	CTCTGCCTCC	CAGGTAGCTG	10,00
GGACTACAGG	CACAGGCCAC	CACGCCAGGC	TAATTTTTTG	TATTTTTAGT	40800
AGCGACAGGG	TCTCGCCATG	TTGTCCGGGC	TGGTCTGGAT	CTCCTGGCTT	10000
CAAGTGATCC	CCCTGGCTCA	GCCTCCCAAG	GTGCTGGGAT	TACAGGCTTG	40900
AGCCACCGCA	TCCAGCCCAG	ATCTGAGATT	TGCACCCAGT	ATTTGAACTC	10300
CCAAGCCTGT	GCTCTTTTTC	CTCCCATGGA	CATTTCTCTC	AGAGATGGTC	41000
TCCCAAACAC	CTGTCCTTCT	TGTTAAAAAA	CAGACAAACC	GCAAGTAGTT	11000
CTTTGGAAGC	TCAGATTTCT	CTTTTGTTTC	TTAGTAAAAC	ATTTCCCAGT	41100
TCCCAGCTCC	CTTCCAGGGT	GTAAGATTTC	TTCGGTAACT	TACATCTAGC	41100
TGTTGCTTCT	TGTTTGCTCA	TGTTTAGAAA	GAAAGACAAA	AGAGAGTGAG	41200
AATTTTCTCT	CCCTTCCCCA	GTCTCCCCAC	AACTCACACC	CCACCCTCAG	41200
CTCCCTCTGT	AATAGGAAAA	TCTCTGAACT	CTCTGTAGTT	GCTCCAGCAA	41300
TCTTTTGGAA	CTTTGCTTCT	TTCTTGTGAA	AAAACCTCCC	CTTGGCTCAC	41500
TTTGCACCAG	GTTTCCCCAA	ATGTGCTTCC	AACCACAAGC	AGAAATGGAG	41400
CTGCCAGTAA	CCAGGAAGAA	ACTGCCGGGG	GCTGAGGAAG	AGGAGAGGGA	11100
		GCAGGGAGAG			41500
		GGGTCAGTCA			41300
		GAGGGTAAAA			41600
		GACTTAGAAT			11000
		TTCCCAGAGA			41700
		GGCAAGGTTA			11,00
		TGTCTATACA			41800
		ATTGCTGCAT			11000
		ATTTATTATC			41900
		AGGTTCTCTG			11500
		GGCTGCAGTT			42000
		ATACAATATT			42000
	ACTGAGAGCC				42100
				AAGGCAGAGA	42100
	GCAAGTAGGA		TTCTGTAATA		42200
		CCATCACCTT		TGTGGGTTAG	42200
		CCACACTCGA			42300
DAIDAAJAAA	CMGGICCIGC	CCACACICGA	HUMUUAUAAR	DAAAOAOAO	42300

FIGURE 1E

		•	6/15		
ATGTGATTCA	AAGTGGGGAT	CATCGGGGCC	ATCTTAGGTT	TGTCTGCAGT	
	CCATCTCTCT		TTTTTTTTT	TTTTTCCGAG	42400
	CACTCTGTCA		AGTGCAGTGG	CATGATCTCA	-
GCTTACCACA	ATCTCTGCCT	CCCAGGTTCA	AATGATTCTT	CTGCCTCAGC	42500
	GCTGGGATTA		CCACCACACC	CAGCTAATTT	
	AGTAGAGACA		ATGTTGGCCA	GGCTGGTCTT	42600
	CCTCAAGTGA		TCGGCCTCCC	AAAGTGCTGG	
	ATGAGCCACC		CCATCTCTCT	TTAAAAAAACA	42700
	CAAAAAACAT		AGAGAACACA	TACACATCTG	
	TGTTTACTTA		TTGGAAGTCA	CTTCTCAGTA	42800
GAGGCTAGGT	TGGGCAGAGC		AGGCCAGTGA	GTTTGGACTT	
	ACACTAGGAA		GACAGAGAGA	GATGCCTCGA	42900
CCCTGCCAGT	CCTTTAGAAA	GATCACCCAG	TGCTTTTTGT	ATACCAAACC	
	TACTTACGTA		TTTCCTTATC	ACCACAACCC	43000
	GAGATAGGCA		CTTCATTTTG	CAGATGAGGA	
	CAGAGAGGTT	ATGTCACTTA	CTTAAGGTCA	CACAGCCAGG	43100
	AGGGACTCTT	ACCCTTGTTT	TACAGATGAG	ATTGAATTAT	
CTCACGAAAA		TTAAACAACT	TGCCTAAGTA	ACATACAGCT	43200
AATTAGTCGA		GCATGTTGCT	CTAGCCTGGT	CACAGTTACA	
	GCAATGGCCT	GAACAGGACG	AACAACCAAA	TACCCAGGCT	43300
	AAACATGGTG		ACGACAGCAA	CCAGGGTGGG	
	CCTCGCCCCC	GGCTGGTGCC	CTAACATCTC		43400
	AATCTATAAC	GTGACCTACC		CCTCCGCATC	
7100710110710	7411011111111			A	
[exon	7: 43406			7.	
	CCCTGAAGTC	TGGGATTTCC	TACAGGGCAC	GGGTGAGGGC	43500
	TGCTATAACA			CCCAGCACCA	
	CTGTGAGTAT			AATCTCCACT	43600
7101000710711	435				
CTCCATTCTT		CAGACACTTC	CCCTGGCTGA	GTCTCTGGGC	
TTTTATATCA		CTAATGGCAA		AGATACACCT	43700
	ATCTGCCAGG			AACACACAAG	
C					
CCCACAATTT	CCATGGCTTA	ACACTATAGG	AATATATTTC	TTGCTCATGŢ	43800
	CGTGAATGTT			CCTCCCTGTA	
	GAGTGAGGTT		TGTGGTGCCA	TCATTCTCCA	43900
	TCTTACCTAC			TGGCAGCCTG	
GTGAAGCCTA	TGGACCTCAT	TTCAGAATAT	TTTTAAATAC	ATAAAATCCC	44000
AGCCTGGGCA	ATATAGTGAA	ACCCCCATCT	GTACAAAAAT	TAGCCAGGCA	
TGGTGGCATG	CACCTGTAGT	CCCAGGTACT	GGGAAGGCTG	AGGTGGGAGG	44100
ATCACTTGAG	CCCAGGAGTT	TGAGGCTGCA	GTGAGCCGTG	ATCGTACCAC	
TTTACTCCCA	CCTGGGTGAC	AGAGCAAGAG	CCCATCTCTA	AAAATAAATA	44200
AATACAATGA	ΑΑΤΑΑΑΑΤΑΑ	AATAAATAGA	ACTACAGAGG	AAACTAATTG	
TATTCALIGN	CAGTTATAAA	ACATTTAAAC	ACATTTTTAA	TCTAGAGATA	44300
TATIONETIC	TTTATTAAGA	ТСТАТАААТА	ATAAGTTCTA	GGGGTAGCTC	
CCATAAATAC	ТСТААТТТСА	AAGTAGATAA	GCATAAATAA	TACTTTATGA	44400
TACTGAAATT	GTGATGTGAT	ATGAGAATAG	CTGTGAGTTT	TGTTTTGCTG	
GGGACAGGAT	CACTGATGCT	GTCATTACTO	GGGTCTCTTC	CCTCCATTCT	44500
ΔΔΔΥΥΥΨΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥΥ	TTGTATTTA	TTTTATTTT	AAAATTTTAA	AATAAATAGA	
CACACCCTAT	CACTATGTTC	CCCAGGCTGC	TTTTGACCTC	CTGGGCTCCA	44600
CTCATCTTCC	CATCTTGGCT	TCCCAAAGTG	CTGGGATTAC	AAGTGGGAGC	
CACTCTICC	GGCCCCTTCC	TCCATTCTTA	ATGGAAGGAG	ATGCTAGGTG	44700
TCACACCTTA	GGGAAAGTAA	AGATGTAATT	TCTTTCCCAT	CCAAGTTCTC	
AGACCCCTCA	ATTCTACCTC	CAGCCATGTT	GGTCCATCAA	CCCCAAGTGA	44800
170170001 GE					

FIGURE 1F

			0 /1 5		
			9/15	CCCMTCCCCT	
GAAGCCGAAT	GAGGTCATTA		GGCTTTCCCG	CCCTTCCCCT	50100
TGGCAATCCC	AGCCTGGGGT	GGGCTTCTCT	GGGGTTGGTT	TCCTGTTTTT TGTGTCATTC	30100
TTCCCTCCCC	TTGGGAGAAT	GACCCTTGGG	TCATCATCAC		50200
CCTGGGGAGG	TGCCAGTACC	AGGGCTAGAG	GCCAGAAGGA	GTGGAGGAAG	30200
GAGAGGGTGA	CAGGCTTTCT	GTGTCTTCTT	CTTAAGCATA	GGAAACTGCC	50300
CCCGAAGCAC	TAGCAAATCC	CTTCCGGGTT	CTCATTGGCC	TGAAATGTAT	50300
CCCACCCCTA	AGCCÁGGGGT	GGAGTCAGCT	TCCCCAAGGC	GATGGTCCTG	E0400
TGGGTGAGTG	GGTGGGGTTT	GCCTGAGCAA	GATGAGAGTT	CTCTAGGTAG	50400
GAGAAAGGGG	GATTATAGGT	CCTGTCTAGA	AGAGAAGGTC	TGAGGGTCCT	50500
TGCTTTTCCA	GGGACTCTGG	AATCTAGTGT	TGGCTTTGAA	TCCTGACTCT	50500
GCCACTCACT	GGCAGTGTGG	ACTTGAGCAA	GTTGCTTAAT	TCTCTGAGCC	50600
TCAGTTTCCT	CTTGTGGGTT	ATAACAGTGT	TTACCTGGTA	GGACAGATAT	50600
TGGAATTTAT	TGAGACAATA	CATATAAAGT	GCATATTCCA	GCCTCTTGCA	50500
AATACCAAGT	GCCATTTATG	TATCAGTTAG	TGTTTGCTGT	GTAACAAATG	50700
ACCCCGAAAT	GTAGAGGGTT	ACAACAACTT	TATTTAGCTT	ATGCTTCTGC	
AGGCTGGCAT	TTGGGGCTGG	GCTCAGCAGT	GAGGGTGGCG	GGGGAGGCTG	50800
GGCTGGGCTG	GGCTGGGCAG	ATCTGAATTG	AGCTGACCCG	TCCCCGTAGC	
CTCCCTCCGT	GTCTGACAGT	TGGCTTTTTT	TTTTTTTTC	TTTTTCTGAG	50900
ACGGAGTTTT	GCTCTTATTG	CCCAGGAGTG	CAATGGCATG	ATCTTGGCTC	
ACTGCAACCT	CTGCCTCCTG	GGTTCAAGCA	ATTTTCTTGC	CTCAGCCTCC	51000
CAAGTAGCTG	GGATTACAGG	CATGTGCCAC	CACGCCAGGC	TAATTTTGTA	
TTTTTAATAG	AGATGGGGTT	TCTTCATGTT	GGTCAGGCTG	GTCTGGAACT	51100
CCTAATATCA	GATGATCCAC	CCACCTCAGC	CTCCCAAAGT	GCTGGGATTA	
CAGGCGTGAG	CCACTGCACC	CAGCCTAGTT	GGCTGACTTT	TACCTGGGAC	51200
AGTGCAGGTG	CCTGAGCCAT	GTGCCTCTCA	CTCTCCAGCA	GGCCGGCCCA	
GGCTTGTTTA		CAGTTTTCAA	GGGTGGGAAG	TCCCAAGGCT	51300
TCTTGAGGCC	TAGGCGCAGC	ACTGGCATGA	TATCACTTCC	ATCACATTCT	
ATGGGCCCAA		GGGCCAGTGT	AGATTCAAGG	GATGGGAGGA	51400
	ACTCCTCTGT	GGCCACTTTT	GCCATCGACC	ACAGTCCCTG	
TAAATATTAG		TTAATTCCCA	GGAATCTGAG	GCTCAGAAAG	51500
CGTAAGTGAC		TCTGATCTGT	GTGATGTCGA	GGCTTGTACC	
	CATTGCCGTA			CCACTCTGCT	51600
	CTGTCTCTGT			AGAAGCGGTC	
	10: 51628.		101101101		
	GAACCAGCCA		TGTATCTGAA	CTTAGGTCAC	51700
CCGAGGCCAG	516		1011111111		
AGCCTGCATG	CATTGGGAAG		TGGAGAGGCA	AGCCCCTAGC	
TCCATGTCTG	CCTTCTCTTC	CCTGCATTCG	GTAATTGCCC	TGTGACATTA	51800
CCCTTCAAGG	GACGGCAGGA	GGAGGGGTGT	TCTGGAAACG	TGGACTGCTG	
GCCAAGCCCC	CTGAGTTTCA	CTGGTGTGTC	AGGTACATGG	TGATACCCCT	51900
TGGGAGTGCT	GTTATAGTTA	ACAACCAGAG	CAGCCGTGCC	TGTTGTTAAA	
ATCTTCACCT	AATTGTATAC	TTGTCGGCAA	ATAGCCACTA	TCCTGAACAC	52000
TCCCCTCCTT	TTTTTTAATA	TACAGGATCT	CACTCTGTGG	CCCAGGCTGG	
				CCTGAGCTCA	52100
1GIGCAGIGG		CTCCCGAGTA	CCTCATACTA	CAGATGTGCA	
AGIGATCCIC	TGGCTATTTT	N N N A CCTTTT	TGCCTGTAAT	TCCAGCTACT	52200
	TGGCIVILIT	ATCACTTCAA	CCCGGGAGGC	AGAGGTTGCA	
CHCACCCCAC	AGGCAIGAGA ATTGTGCCAC	TCCACTIGAA	CCTGGGCGAC	AGAGTGAGAC	52300
TGAGCGCAG	MIIGIGCCAC «« «« «« «« «« «« «« «« ««	TGCACICCAG	ACTTGGGCGAC	AAGACAAGCT	32330
CTCCCCCCCCC	MCCCCCCCC			TCCCTGGGGC	52400
CTCGCTGTGT	AJJJJJJJJJJ I	CCACAAACMA	A A CCCCCCTCC	AGGACCCTGC	52400
UTGUTGGACC	COMMOCOCO		, WYGGGGGT//	TTTTGGACGC	52500
				ACTGCAGCCT	32300
AGGGTCTTGC	. TGTGTCCCTC	AGGCTGGAGT	CTCACIGATIC	TAAGTAGCTG	52600
CAAACTCGTG	. GGCTCAAGTG	ATTUTUTAGU	. CICAGCCIIC	IMAGIAGCIG	52000

FIGURE 1I

			7/15		
	~=~~~	CCT CCT TITCT	7/15 CTGTATCCAG	CCACCACAAG	
	CTCTAGGGCC			ACAGCCCGGA	44900
	ATGGAGATCA	CATCTGCTTC	TTGAAAGCAG	ATGGTCACAT	44200
AGTGGGCCGC	ATCACTTCCT	CTCAAATTCT	ATTGGTGAAA ACTTTCTCAC	TTGGAACCTA	45000
GACTACACAT	AGCCACAAAG	GAGGCTGGGA		TCTTTCGCAG	40000
CATCCCAGAA	ACAACTCTTT	TCAGTGAGGT	ATCCCACAGG		45100
TAGAAATATT	GATTATCTCA	CATAAAATGA	AGTCTTACAA	ATGGACCTAC	43100
TGGGTTTTGT	ACAGCAGCCA	AGTGATATCT	CTTCCCTTCT	GCTGTCTTCC	45200
CTTCTGCCGT	CCTTCACATG	GTGGCATTGT	ATCCTTAGAC	TTGCCACCCA	43200
TGCCCTCAGG	TTGGCCGTTG	CACACTGTCT	TACATAAAGC	AGGAAGGAAA	45300
GGAAAGGCTG	CTACGAGAGA	GTGTACCTTG	TGCATCTCTT	TTTTAATCAG	43300
GAAGCAAACA	TCTTTCTAGA	AGCTTCCCTA	GCAAAATTCC	CCTTACATCT	45400
CATTGGCCAA	GACTGTTACA	TGTTACATGG	TTACTGTTAT	TACTTGCTCA	45400
TTGCAAGGAA	GACTGGGAAC	TCAAATGCCT	GGAAAAAGGA	ACAGGATAAT	45500
CGTGATTGGC	TCAAGCCTTA	GGGTGGGCAT	GGCTCCCTGA	CAAGGGAGAG	45500
AGGAAAAAGC	TGTTGAGTGA	AGAAGACTGC	TTCAGTTTCC	CCATCTGTAT	45.600
AATGGGAGGA	GTAAGGGCTG	TCGTGAAAAC	TCAATGAAAG	AAGATTCTTC	45600
AACGTGGTAG	GTGCAGTGGC	AGCTGGCAGT	ACCCTGACCC	TGCCACCGCA	45500
CAGCCCTCTC	AGCATTGCTC	ATCCTGCACT	GTGGATATCA	GTTGAGCCAC	45700
GTGTCTCCTG	CCCTGGGCTG	TGAGCTCCAT	AGGCAGGGTC	TCCATGGCTG	
TATCTCCAGA	ACCCAGCACA	GAACCAGGTG	CTTGGGAAAG	TTTTGAATTG	45800
ATTCTCATCT	GCCATTGGCA	TGGGGAAGGG	AACTAGCTTG	TATGAAACAG	
ATAACAATGT	ATGGGACCCT	CATTCATTAT	TTCAGCAAAT	ATTTGCTGAG	45900
TTCCTCCTAC	ATGGCTAGCC	CTGTGCTAGA	CACTGGGGAA	TCGGCGATGA	
ACAAAGCAGA	TAGAAATCCC	CACTCTTGTG	GAGCTGACAT	TCTGGAGGGA	46000
GAGACAAAAA	GCAAACATAT	AAAGAAAGAA	AGAAATCACA	TGGATCTGGA	
TGACAGTGAG	TGCTGGGAAG	AAAATAAAAG	CAGAGGAAGG	GGATGGAGCG	46100
ATGGGCAGGG	GGCAACGGTA	GGGAGGGTGT	CGGGGAAAAC	TTTTTGGAGA	
ATGTGACGAT	GAAAGTGAAC	AAGGAGAAGT	CAACCGTGTT	GAGATGATGG	46200
CAGCTAATGA	TGTGGACAGG	CCACTCTGTT	CTGAGTGCAT	TATCTATTGA	
TTCATCATGT	CATCCTCGCA	ACAGCCCTGC	ACGATCAATT	CTGTCATTAA	46300
CCCCATAGTA		TGCGGAGGCA	CAGAGAAGAT	AAGGGACTTG	
TCCTGTGTCA		AGCCATCCGG	CTCCTAAGTT	GGTGCATTTG	46400
ACTTCTGTGC	TTCCGGAAAG	AAAGAGCAGC	AAGTTTAAGA	TCTGGAGGTG	
GCACTGAGCT	TTGGAGGAGC	AGGGGGCAAT	GAGGTGGCCG	GTGTGACGAG	46500
GACTCAATGT		GAGTGGTGGG	GAGATGAGGT	GGAGGGGTGG	
TCGGCGGTCA		_		ACCCTGGGTC	46600
TCCAGTCCTG		CCCAGGCTGT			
				GAGCAGCACC	46700
	n 8: 46674				
тсстестесе	CGTCAGCGTT	TCCTGCATTG	TCATCCTGGC	CGTCTGCCTG	
TTCTCCTATC	TCAGCATCAC	CAAGTGAGTC	CTGGGCCCAG	TGCTGCCGAG	46800
IIGIGCIAIG	467		•		
CACTCCCTCT			CTTGCCCCTC	TAGTCTGCCC	
CAGICCCICI	CTCTCACTCA	ATAATACGTA	TTTACTGAGC	AGCTACTACA	46900
CACCETCACA	CTOLOGGICA		ACAAGGACCC	CACTTTTTC	
CACCIIGAGA	. GIAGAGCIGA		CACTCTCACT	CTGTCACCCA	47000
	T T T T T T T T T T T T T T T T T T T	7 T T T GAGACG	ACAGTAACCT	CCGCCTCCCG	
GGCTGGAGTA	. IAGIGCACA YAMAMAMA	CTCITGCCIA	ACACTACCT	GGATTACAGG	47100
GGTTCAAGCA	MITCLICIGO		. TATACTAGCTC : TATTTTTCCT	AGAGATGGGG	0
CGCATGCCAC	, IAIGUUUGU , mmccmcacc			CATGATCTGC	47200
TTTCACCATG	TIGGICAGGC		CICCIGACCI	CAIGATOTGE CCACTGCACC	1,200
CTGCCTCAGC	, CTCCCAAAGI	GCIGGGAITA	Z ZTCCTNCTCC	G GGAGACTGAA	47300
CAACCAGGAC	, TOCACATTIC		, CCVAVCACTO	C CCACTCTCTG	1/500
AATACATATC	AATCACAAAC	AGGIGGITTI	TOTAL TOTAL		47400
AATGCACTAG	. ACCAGGGTGC	AGGCCAGAGA	7 1011016666	TGCTTTTTGC	7/400

FIGURE 1G

			8/15		
AAGGGGGACC	λ CC λ T λ λ CCC	TCTCCAAGGA	GGGAAAATTT	GAGGGGGCC	
	AGAATGAGCT	GGCCAGGGAT	AAGCAAGATG	GAGTCATCCC	47500
•	ACAACACTGG	GTGCCTGGGC	AACTGGGGGC	ATTTGGGGGC	1,000
ACATCCCCTT		ATTTGCGACG	ATTGCCCTGA	TGGAGTCAGG	47600
ATGTGGTAGG	AGCCAGAGGA		TTGGTAGCTG	GCGGCCGACA	17000
AGACCTGGGT	TTGAATCCTG	GCCTTGGAGC	TGCTTTGCAG	AGTGACAGTG	47700
AGTTGCTGAA		CTGGGGTTCC	AGGCCAAATC	ACAGTAAAGG	47700
ATGGTGAGAA	CATATTTCAT	CAGCCAGAAG	GGAGGTGGTG	GAAGGAGCCT	47800
CTGAGGGAGG	AGATGAGTGG	CGAGTGGCTG	AATCATGGTG	TCTCAGAGCC	47000
CGTTTCCAGA	GAGCTCTTGC	CAGCCCTTGG	CAAGCTCAAC	CTCACTAAGT	47900
TCAGTCCTCC	CATCTCTGAA	GATTATTAAC	ATGATTGATG	AAAGTGCCCA	47500
CAGGATTAGA	GGTGGCTAAG		GGAATGCAAA	TTCCCCTCCA	48000
CTCTTGGCCC	AGCACACACT	AGGTAGGCAG	TGGACTGATC	GCCTTGCTCT	40000
TATCTTGTCA	CTGATGCCTC	CGAGCAACCT	TTCCCACTCC	CCATCACTAT	48100
GAGCCTCAGT	TTCCCCATCA	CCTGTACCTC		TTTCTTGTTT	40100
ATCCCAGCAT	GCCAGCCTCT	TTGCTGTTCT	TTGTCTTTGG	CTGAAGTGCA	48200
TGTTCTGTTT	TTTAGACAGG	GTCTCACTCT	GTTAGCCAGG	CTAAAGAGAT	40200
GTGGCGCGGT	TACGGCTCAC	TGCAGCCTCC	AATTCCTGGG	•	48300
CCTCCCATTT	CAACTTCCAG	AGCAGCTGGG	ACAACAGGCG	CTTGCCACCA	40300
CACCTGGCTA	ATTTTCTTAT	TTTAATTTAA	TTTTATTTTA	TTTTTTGGGA	40400
CAGAGTGGAG	TCTCAAAAAC	CAAGCTAGAG	TGCAGTGGTG	CGATCTCGAC	48400
TCACTGCAAT	CTCTGCCTCC	CGGGTTCAAG	CGATTCTCCT	GCCTTAGCCT	40500
CCCGACTAGC	TGGGATTACA	GGCGTGTGCC	ACGACACCCA	GCTAATTTTT	48500
GTATTTTAG	TAGAGATGGG	GTTTCACCAT	GTTGGCCAGG	ATGGTCTTGA	40.600
ACTCCTGACC	TCAAGTGATC	CACCCACCTC	GTTCTCCCAA	GGTGCTGGGT	48600
ACAGGCATGA	GCCACTGTGC	CTGGCCAATT	TTCTTACATT	TTGTAGAGAC	40700
TGGCTGTCAC	TTATGTAGCC	CAGGCTGATC	TTGAÁCTTCT	ACCCCTTTAT	48700
CTTTATTCAT	GGCACTTATT	ACCATGAATG	AATGACCTCA	TATAAGCATT	40000
TCTTTCGTTT	TTTTTTTTT	TTCTTTGAGA	TGGAGTCTCA	TGTTGTCCCC	48800
CAGGCTGGAG	TGCAGTGGCG	CGATCTCAGC	TCACTGCAAC	CTCCGCCTTC	10000
CGGGTTCAAG	CGATTCTCCT	GCCTCAGCCT	CCTGAGTAGC	TGGGATTGCA	48900
GGCGCCTGCC	ACCATGCCTG	GCTAAGTTTT	GCATTTTTAG	TAGAGACGGT	
GTTTCACCAT	ATTGGCCAGG	CTGGTCTCGA	ACTTCTGACC	TCAGGTGATA	49000
CACCTGCCTT	GGCCTCCCAA	AGTGCTGGGA	TTACAGGCGT	GAGCCGCCAT	
GCCTGGCCTC	ATATAAGCAT	TTCTGTCTCC	ATTTATCATC	CATCTTTCCC	49100
TCTTGAAGGT	CAGTTTCACC	AAGGCAGGCA	TCTTTGTCTC	GTTCACTGTT	
GTAGCCTCAG	GGCCAGGCAC	AGTGAGTCAA	ACATAGAAGG	TGCTCAATAA	49200
ATATGTGTTT		ACCATGGGCA		CAGAAGCGGT	
CTGAGGACCT	TACCTCCCAG	TGATGATGCA	CCATGGCCCC	AGGCAGGCCA	49300
GGAAGAGAGA	AGGGTTGTGT	TTCTCCGTAG	GTCCCCCAGC	TTCCCAGGCC	
ATCCCAGGCC	ATTCCCTGGT	CATTTGCCCT			49400
TTGTTGAGGG	GAACCTAGAA	TCCTCTCTCT		TCTTTCCTAA	•
TCCCCTGGGG	TCTCATTCCC	ACTGAGGACA		CCTCAGGAAC	49500
TCTGTGCTGG	GTAACAGAAT	GCGGGAGTGT		CTGCCACCTA	
CCAGCTGTCA	CTCCACCTCC	TTGGGCCTCA		CTGTAGAATA	49600
	TAGAATCCAT			AGTCAGTGGT	
	GAAACTAATC			ATAAGTATTG	49700
GTGATAACGA	CCACTTTTAT	GGGAGGAGCG	TTCACCTGTC	AATAATTCAG	
	CTTTTCCTTT			GAATGGTGGG	49800
	n 9: 49781				
	CAACCCAGCC		TCGTGGCTAT	AATAATCCAG	
	TAGGAGTAGG			ACTGTGTACA	49900
5.12 5 5 1 5110 6	498				
TGAAGAAGTG	TGGTTCAGAA		GTTAAGGACC	TTCACTGGCT	
TCTGGAATGG	CAAATAGACA	GTCAGGAGGG	TTGCAGGGGA	GACAGAGGCA	50000

FIGURE 1H

	C	FIG	URE 1J		
ATCCTGCCCC		CAGAGCTCAA	GUAGAUUU	, CAAAAICGIG	
				CAAAATCGTG	21000
				TCATCCTTCC	54600
CACCCCTCTC		тссастесас	GCCAGTCTGT	GTCCGGCCTC	
GC1GC1G1GG	AGACAGGICC G	ICGCCCCIA		2,100300001	0 10 3 0
CCTCCTCTCC	ACACACCTCC	TCGCCCTTA	CAACCCCCCT	GAGGGCCCCA	54500
TACTCAGCC	CCTCCCACA	2552515132 7477277777	GGCCAGTCCT	TGCTGTGGCT	
MGGAGCAGGC	TTACCTCCCA	CLIGIGGACA	CACCTGAAAC	AGTGTCATGG	54400
TCTGGAGCCG	CACACACCC	CTTCTCCACA	CCCTCCCC	TGGCATTGTC	21330
шешеелеее	CCCCNNNNCC	Ⴅ እርእ <i>ር</i> ርእርእም		CCACTTCCCC	54300
CGCAGTCCGC	AGAGCTCACA	TCTCCCAAGC	AGCTCCCAG T	AGCACCTGGG	•
CCCCAGTCCC	TGTCCCCTTG	TTCACCTTTG	A CCTCCCCAC	ACCACCTCCC	54200
GGGGTATAAG	CCTTTCCAAG	ACCTCATTCC	CACTCCACAC	GGGGACCCTG GGAGCCACCT	54200
AGTGCTGTGT	CCCCAGAGAA	ATGTGGGTTT	TCCCTCCCC	GTGGGGAAGA	24100
GTCCCCCAGG	AGAGGCTGGT	TACAAGGCCT	CCCCCTACCA	GCTTGCCAGC	54100
ACATGCGGTG	GAGCAGGGTG	GCACCCAGGC	TCTCA A CCCT	GTGGGCTTGG	34000
7 07 E 0 0 0 0 0 = 0	*	CCACCCACCC	CNCTCCCTC		54000
GCAGCTGCAG	T	GGCCCCCACC	AGIGGCIAIC	G A	
	CTGGGAGCAG			AGGAGTTTGT	55500
-	GTCCCCCAGC				53900
	ACCCACTGCT	TCTCTGAGCC		CCCCAACCTG	33000
	7 CCC7 CECCE	C GGCCAGACAC	CTGGAGGAAG	TAGAACCCGA	53800
CTTACCGCAG	CTTCAGCAAC	TCCCTGAGCC	AGICACCGIG	ICCCAGAGAG	
		AGACGCCCCT		TCCCAGAGAG	33700
	ACCTGGAGCC			GGCAACCCTG	53700
		AAGTCCTCCT		CCCAGAGTCC	33000
C T	C AAGTGCAGGG	CCCAAGGAGG	САССТСССТС	GGGCAAGGAG	53600
010111000-	CTTCCACCTT	CGGGAAGIAC	GUGIGCICAC	11100001000	
T		CGGGAAGTAC	CACTCCTCAC	ATGCCCTGGG	
•	AADADGAGAA	1666666111	DUADUADU	MODIGGGA	33300
СЛССПССПСС	C GAGAGGAGAA	ТССССССТ ТТ	TGCCAGCAGG	ACATGGGGGA	53500
AGGAGGGAAG		313377796	DADADAJAA	0010110010	
	GGAGGGCATT	GTGGCCCGGC	TAACAGAGAG	CCTGTTCCTG	55155
-	AGCTTCTGTG	CATCGCCTGA	GAGCAGCAGG	GATGACTTCC	53400
GAGTTGTTTG		GGAGTGTGAG		AGGTAGAGGA	23003
TCAGCAAGAC		CCAGAGAGCA	TCAGCGTGGT	GCGATGTGTG	53300
AGAGATGCCT	ттссасссст	CTGGAAAATC	AGCATGGTGC	CCAGTGGAGA	
TTTCTGGAGC	ACAACATGAA	AAGGGATGAA	GATCCTCACA	AGGCTGCCAA	53200
			armaarara-	A CCCMCCCA T	E 2 2 0 0
[exon	11: 53114.	•			
TTTGCTTTTG	CAGACACTGG	AAGAATTGTC	TTACCAAGCT	CTTGCCCTGT	
0.1.0.1.1.0.11				T	
GAAGAATGAA	TAGGAGTTTT	TCAAGTGTCG	AAACTGAACC	CTGACCAACC	53100
C	THOMESTAGE	1011001101110	2_2200		
ATGTCTGAAG	TAGACAGCCA		GTGATTTCAG	GCTGGGCTTT	
TCATTCTAGC	00011111111	GATCAATTAC	TGATTATAAC	GTTAGAAGGC	53000
TGCTGGGTTC		AAAGACACAG	ACCCTACCCT	CAGGGATTTC	
	ACTCAACAGA	TCTGAGCTTG	TATTTGGTGC	CCAGGACATG	52900
GTCATGGCTT	GGGATAATGG	TGTTGCTTTT	AATTATCATC	ATCCATAAAG	_
GGATTACAGG	CGTGAGCCAC	CGCACCCGGC	TTCCATATCC	TTTCTAATTG	52800
CAAACTCCTG		ATCCTCCCTC	CTCAGCCTCC	TAAAGTGCTG	
	ATGTTTGAGA		TCTGTTGCCC		52700
GGACTACACT	CATACACCAA	CATGCCCAGC		TTTTTTTAAT	
			10/15		

FIGURE 1J

			11/15		
а а стттстст	CCGTGGGACC	CACATACATG		AGGTGCATGT	54700
AACITIOTOI	00010001100	0110111111111		СС	
	546	92			-
CCTCTTGTTG	CTGAGTCTGC		TAGGGCTTAT	CCATGCCTGG	
0010110110				T	
GAAATGCCAC	CTCCTGGAAG	GCAGCCAGGC	TGGCAGATTT	CCAAAAGACT	54800
		G			
TGAAGAACCA	TGGTATGAAG	GTGATTGGCC	CCACTGACGT	TGGCCTAACA	
CTGGGCTGCA	GAGACTGGAC	CCCGCCCAGC	ATTGGGCTGG	GCTCGCCACA	54900
TCCCATGAGA	GTAGAGGGCA	CTGGGTCGCC	GTGCCCCACG	GCAGGCCCCT	
GCAGGAAAAC	TGAGGCCCTT	GGGCACCTCG	ACTTGTGAAC	GAGTTGTTGG	55000
CTGCTCCCTC	CACAGCTTCT	GCAGCAGACT	GTCCCTGTTG	TAACTGCCCA	
AGGCATGTTT	TGCCCACCAG	ATCATGGCCC	ACATGGAGGC	CCACCTGCCT	55100
			G		
CTGTCTCACT	GAACTAGAAG	CCGAGCCTAG	AAACTAACAC	AGCCATCAAG	
				A	
GGAATGACTT	GGGCGGCCTT	GGGAAATCGA	TGAGAAATTG	AACTTCAGGG	55200
AGGGTGGTCA	TTGCCTAGAG	GTGCTCATTC	ATTTAACAGA	GCTTCCTTAG	
GTTGATGCTG	GAGGCAGAAT	CCCGGCTGTC	AAGGGGTGTT	CAGTTAAGGG	55300
GAGCAACAGA	GGACATGAAA	AATTGCTGTG	ACTAAAGCAG	GGACAATTTG	
0		A			
CTGCCAAACA	CCCATGCCCA	GCTGTATGGC	TGGGGGCTCC	TCGTATGCAT	55400
	GAATAAATAT	GCTCAGCCAC	CCTGTGGGCC	GGGCAATCCA	
		${f T}$			
GACAGCAGGC	ATAAGGCACC	AGTTACCCTG	CATGTTGGCC	CAGACCTCAG	55500
	AGGCGGGAAC	CTTGGGTTGA	GTAATGCTCG	TCTGTGTGTT	
			${f T}$		
TTAGTTTCAT	CACCTGTTAT	CTGTGTTTGC	TGAGGAGAGT	GGAACAGAAG	55600
GGGTGGAGTT	TTGTATAAAT	AAAGTTTCTT	TGTCTCTTTA	TTTTTTATGT	
ATTAACCAAA	CATACCTCCA	GACACTGCTG	TGAGTGCTGT	GTCTCTGTTA	55700
ACTCCTGGAA	TTCACCCATC	CAGAGGAACC	AGGATGCAAG	AGGTTAAGAA	
ACTTGCCGTC	TGGGTTTGGG	TTCCCCATAC	AAGGATTCAA	ATAGTTGATT	55800
A					
TAGGAAGTAA	TCCCGGGAAA	CCCTGCTAAG	GTAGTGGGGA	ACTGAGGCAG	
GGAAGGACAC	AAACCAAGAA	AGTGTTACCT	GAAAGGGGTC	CAGATGCAGA	55900
CCCCAAAAGA	GGGTTCTTGA	ATCTCATGCA	AGAAAGAATT	CAGAGCGAGT	
CCATAGAGTC	AGTGAAAGCA	AGTTAATGAG	GAAAGTAAAG		56000
ATGGCTACTC	CGTAGACAGA	GCAGCCCTGA	GGGTTGCTGG	CTGCCTATTT	
TTATGGTTAT	TGATTAATTA	TATTCCAAAC	AAGGGGTGGA	TTATTATGCC	56100
·TCCCTTTTAG	ACCATATAGG	GTAACTTCCT	GATGTTGCCA	TGGCATTTGT	
AAACTGTCAT	GGCGCTGTTG	GGAGTGTAGC	AGTGAGGACA	ACCAGAGGTC	56200
ACTCTTGTTG	CCATCTTGGT	TTTGGTGGGT	TAGAGCCATC	TTCTTTACTG	
CAACCTGTTT	TATCAGCAAG	GTCTTTATGA	CTTGTATCGG	TGACGACCTC	56300
CTGTCTCATT	CTATGACTAA	GAATGCCCTA	ACCTCCCAGG	AATGCAGCCC	
AGTAAGTCTC	AGCCTCATTT	TACCCAGCCC	CTCTTCAAAG	CTCCAGTTTA	56400
AATAAACCTC	TGACAAAAGG	GTGAGTTATT	CAACAGATTA	CCAGCATGAG	5.5500
TAACTGATGC	TTACCTGCCG	GGGATCTCTG	GAAGACCATG	CATGGCACAT	56500
GCCCAGTTAT	GCCTGCAAAG	GAGAGGGAGC	TGGGGTATTT	GTCCACCAGC	5.6600
TCCCATCTGT	' CATTGGCTGA	GAGCTGCTTC	CAGGAGCATT	AATTCTCCAG	56600
CACTTCCAGC	: TACTCCAGGA	AAAAAAAAAT	TCTTCAACTG	AGAGTTGGAG	F 6700
GTGTTGAGAG	ACTCTGGCAC	ACCAAGAAGA	. CAGGAACAGG	ACACCAACAG	56700
TGGCTGATGA	TACACTGCCA	AGGTCACACA	GCTAGTTAGC	AACAGATCTA	5.0000
TAGTGGAATC	CAGACAGTGT	CTCCATCACC	CAGGCTCTCT	GTAGTGATCT	56800
GCGCTTCACA	TCCGAGGCAG	GCAGAGGGAT	GGTGTGGGCC	TTAGATGGGA	

FIGURE 1K

12/15 56900 AGGCTGGGAA CCTGAAGCTC CTATGTCTGT ATCACTTTTG CTTCTCTGAG TAGCTGCCCT GATTTCACAC TTGAGGGGCT TGGCCATTTT AGATTCCTTC CTGCTCTAGG AGCCTACATA CTACACTGGA AATGATGGGG AGCTCTCTAC 57000 CTCACATGCA GCCTGATGTT TGTTAGAAAC ACCTCCTTGC GCCAGGCATG ATGGCTCATG GCTGTAATCC CAGCAATTTG GGAGGCTGAG GCGGGTGTAT 57100 CACTTGAGGT GAGGAGTTCA AGACCAGCCT GGCCAATATG GTGAAACCCT ATCTCTACCA AAAAATAAAA AATTAGCCGG GTGTGGTGGT GGGTGCCTGT 57200 AATCTCAGCT ACTTGGGAGG CTGAGTTGGT AGAATTGCTT CAACCTGGGA CGCGGAGGTT GCAGTGAGCT GAGATTGTGC CATTGCACTC CAGCTTGGAT 57300 GACAGAGTGA GACCCTGTCT CAGGAAAAAA AAAAAAAAAC AAAAAAAACC TTGTTCTAAG CCAAAATCAA TCCCTTTAGC TGCCCAAATC ACACAGTTTA 57400 CAGATGGAGA AACAGTTTTA GAGAGGAAAA GGGACTTGCC CAAAGTCACC CAGAGAATGG CAGAGCCTGA ACTAGCCTTC TGGACTTCTT GCCTCCAAAA 57500 GCTCTTTATA ATAAAATATA ATTTTAAATA AAAATAGTTA TCTGTTTAGG GCCAAGCAAT ATGCTAAGTG CCGTCCAGCC ACTGTGTCAT TTACGTCTCC 57600 AAACAGCTCT AGTTGGGAGG CTCAATGATT ATCCCAATTT TACAGATAAG GAAACAGGTC CAGAGAGGTT GAGGATTAGC CTAGAACCAC ACAGCTAGGA 57700 AATCCTGGAG CCAGGATTTG AACCCGGGTC TGACCTAAGA GCTCCCAGCC GCCGTGATAT ATCAGCTTAT GTCATCCTGA CACCTACGCA GATGTCGGCT 57800 CGAATCCACT TTGCCTGAGC ATTGTCTCAG AGAAATCTAA TTTAAAAATT 57900 AGGCAGCAAA TAGAAAATAT ATTTGACTGC TAGAGATGCA ATGGGACTGG GAGCCCAACA AAGGATCTTA GGCAAAAGAA ATCCAAGTTG TTGGCCTCAG CAACTATTAC TGAACTGGCT GGGCTTTGGG AAGCTACAGA GGGATGAGAA 58000 GACCTGGTGG ATCAGGTGGG CCCAACTCAG GCTGGCCCCC ACCCTGCAGG AAGTAGGAAA AGTCCAGGGT CATAGGCCCA GTGAGATGCC GGCTGCGGGA 58100 GTTTCAGCCT CCGGGGCTGG ACCAGAGGGC AGGAGGGGAC GCCCCTGGGT AGCAGCGCCA GAGTGGGCTG AGTGGCCTGG GCCCCTGCGG GGGAGCTTTC 58200 AGAGATGTTG ATTTGGGGGT ACTCCCTCAG CCCTGCCTTT ACACAGAATT 58300 TGTGGGGGAT GAGGGAGGG GGAAAGGGG GAGGAAGGCA GTGAGTGCAT CTGAATTTTT TTTTTTTTT TACAAAAAGT GGCTTATTGC ATTTTTCTGA TTACTCTATC AGCACGTGCA GACCTTTTCC TATTCAGAGA AAGCCTGAAG 58400 ATATAAAGAG GAAAGTGAAG AAAAACCACC GGAAATCCCA TCCCCGCCCC AGCATCTGGC ACTGTGTGGG CGATCACGAA ATGAGCGCTT GTTTTTGAAG 58500 GCGTAGTATC TCCGTGAACA TCCGGTTGAA CAACCTTTCT GACTTTATTT 58600 TTCCCACGAA AGTTATTAAT TAAAAAACAA AAAGCAAAAC ACCGAAAAAA CAAAAAACCC AGCAAGTGTT TGAGCTCCCA CCACGAGGGA GGCCTGACGT 58690 CACTGGATCC TCCCGGCAGC CGATGAGGCT GCATGGGACT

\$13/15\$ polymorphisms in the coding sequence of 1L4R $\!\alpha$

ATGGGGTGGC	TTTGCTCTGG	GCTCCTGTTC	CCTGTGAGCT	GCCTGGTCCT	
	GCAAGCTCTG	GGAACATGAA	GGTCTTGCAG	GAGCCCACCT	100
GCGTCTCCGA	CTACATGAGC	ATCTCTACTT	GCGAGTGGAA	GATGAATGGT	
CCCACCAATT	GCAGCACCGÁ	GCTCCGCCTG	TTGTACCAGC	TGGTTTTTCT	200
	GCCCACACGT	GTATCCCTGA	GAACAACGGA	GGCGCGGGGT	
GCTCTCCGAA	GCCCACACOI	G	T	A	
GCGTGTGCCA	CCTCCTCATG	GATGACGTGG	TCAGTGCGGA	TAACTATACA	300
GCGIGIGCCA	00100101110	0.110110010		С	
CTGGACCTGT	GGGCTGGGCA	GCAGCTGCTG	TGGAAGGGCT	CCTTCAAGCC	
CAGCGAGCAT	GTGAAACCCA	GGGCCCCAGG	AAACCTGACA	GTTCACACCA	400
ATGTCTCCGA	CACTCTGCTG	CTGACCTGGA	GCAACCCGTA	TCCCCCTGAC	
AATTACCTGT	ATAATCATCT	CACCTATGCA	GTCAACATTT	GGAGTGAAAA	500
CGACCCGGCA	GATTTCAGAA	TCTATAACGT	GACCTACCTA	GAACCCTCCC	
T	GATTICAGA	101111111		•	
TCCGCATCGC	ACCCACCACC	CTGAAGTCTG	GGATTTCCTA	CAGGGCACGG	600
	AGCCAGCACC	CICILICIOIO			
A GTGAGGGCCT	GGGCTCAGTG	CTATAACACC	ACCTGGAGTG	AGTGGAGCCC	
CAGCACCAAG	TGGCACAACT	CCTACAGGGA	GCCCTTCGAG	CAGCACCTCC	700
TGCTGGGCGT	CAGCGTTTCC	TGCATTGTCA	TCCTGGCCGT	CTGCCTGTTG	
		GATTAAGAAA	GAATGGTGGG	ATCAGATTCC	800
TGCTATGTCA CAACCCAGCC	CGCAGCCGCC	TCGTGGCTAT	AATAATCCAG	GATGCTCAGG	
		TCCCGAGGCC	AGGAACCAGC	CAAGTGCCCA	900
GGTCACAGTG	ATTGTCTTAC	CAAGCTCTTG	CCCTGTTTTC	TGGAGCACAA	
CACTGGAAGA	AIIGICIIAC	CAAGCICIIC	C		
G 7 M C 7 7 7 7 C C	GATGAAGATC	CTCACAAGGC	_	ATGCCTTTCC	1000
CATGAAAAGG			TGGAGATCAG		
AGGGCTCTGG				TGTTTGAGGC	1100
CTCTGGCCAG				AAAGGGAGCT	
CCCGGTGGAG					1200
TCTGTGCATC	GCCIGAGAGC	AGCAGGATO	7101100110011	C	
	CCCCCCTNNC	AGAGAGCCTG	TTCCTGGACC	TGCTCGGAGA	
GGCATTGTGG	CCCGGCTAAC	AGAGAGCCIC	11001001100	T	
	CCCMMMMCCC	AGCAGGACAT	GGGGGAGTCA		1300
GGAGAATGGG	GGCTTTTGCC	AGCAGGACAI	0000010101	C T C	
			ССТСССАТСА	GTTCCCAAGT	
	AAGTACGAGT		AAGGAGCAGC		1400
	AGGAGGCACC		GAGTCCAGAC		
GGAGCCAAGT	CCTCCTGCCA			CCGCAGCTTC	1500
GCACAGAGAC	GCCCCTCGTC	AICGCAGGCA	ACCCIGCIA	GTCCAGACCC	
	TGAGCCAGTC	ACCGIGICCC	. AGAGAGCIGC	GTCCAGACCC	•
С		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	A CCCCA CATIC	CCCTGTGTCC	1600
ACTGCTGGCC	AGACACCTGG	AGGAAGIAGA	ACCCGAGAIG	CCCTGTGTCC	2000
CCCAGCTCTC	TGAGCCAACC	ACTGTGCCCC	AACCIGAGCC	AGAAACCTGG	1700
GAGCAGATCC	TCCGCCGAAA	TGTCCTCCAC	CHURCENCA	CTGCAGCCCC	1700
	CCCACCAGTC			GCGGTGGAGC	
T		G G	A COMMOCOMO	CCCAGGAGAG	1800
AGGGTGGCAC	CCAGGCCAG"	D'TOUTOUTUU	GCTIGGGICC	CCCAGGAGAG	1000
GCTGGTTAC	A AGGCCTTCT	J AAGCCTGCT	CCAACACCC	CTGTGTCCCC	1900
AGAGAAATG	r GGGTTTGGG(G CTAGCAGTG	T ACCUMCACA	TATAAGCCTT	1000
TCCAAGACCT	CATTCCTGG(TGCCCTGGG(ACCUTGUCU	AGTCCCTGTC	2000
CCCTTGTTC	A CCTTTGGAC	r GGACAGGGA	J CCACCTCGCF	A GTCCGCAGAG	2000

FIGURE 2A

			14/15		
CTCACATCTC	CCAAGCAGCT	CCCCAGAGCA	CCTGGGTCTG	GAGCCGGGGG	
		T		~~~ ~~~~~~~	2100
AAAAGGTAGA	GGACATGCCA	AAGCCCCCAC	TTCCCCAGGA	GCAGGCCACA	2100
GACCCCCTTG	TGGACAGCCT	GGGCAGTGGC	ATTGTCTACT	CAGCCCTTAC	
CTGCCACCTG	TGCGGCCACC	TGAAACAGTG	TCATGGCCAG	GAGGATGGTG	2200
GCCAGACCCC	TGTCATGGCC	AGTCCTTGCT	GTGGCTGCTG	CTGTGGAGAC	
AGGTCCTCGC	CCCCTACAAC	CCCCTGAGG	GCCCCAGACC	CCTCTCCAGG	2300
G					
тесесттеса	CTGGAGGCCA	GTCTGTGTCC	GGCCTCCCTG	GCACCCTCGG	
COMMOMONO	CAACACTAAA	TCCTCATCAT	CCTTCCATCC	TGCCCCTGGC	2400
GCATCTCAGA	GAAGAGIAAA	10010/110/11		С	
n n m C C m C N C N	CCTCAACCCA	GACCCCCAAA	ATCGTGAACT	TTGTCTCCGT	
		TCTCTT			2476
GGGACCCACA	TACATGAGGG	ICICII			

15/15 ISOFORMS OF THE IL4R α PROTEIN

MGWLCSGLLF	PVSCLVLLQV	ASSGNMKVLQ	EPTCVSDYMS	ISTCEWKMNG	
PTNCSTELRL	LYQLVFLLSE		GAGCVCHLLM	DDVVSADNYT	100
111100122112		V	T		
T.DT.WAGOOLL	WKGSFKPSEH	VKPRAPGNLT	VHTNVSDTLL	LTWSNPYPPD	
			EPSLRIAAST	LKSGISYRAR	200
· · · · · · · · · · · · · · · · · · ·		•	H		
VRAWAOCYNT	TWSEWSPSTK	WHNSYREPFE	QHLLLGVSVS	CIVILAVCLL	
CYVSITKIKK	EWWDQIPNPA		DAQGSQWEKR	SRGQEPAKCP	300
HWKNCLTKLL	PCFLEHNMKR	DEDPHKAAKE	MPFQGSGKSA	WCPVEISKTV	
LWPESISVVR	CVELFEAPVE	CEEEEEVEEE	KGSFCASPES	SRDDFQEGRE	400
				A	
GIVARLTESL	FLDLLGEENG	GFCOODMGES	CLLPPSGSTS	AHMPWDEFPS	
01/11/11/11			R		
AGPKEAPPWG	KEOPLHLEPS	PPASPTQSPD	NLTCTETPLV	IAGNPAYRSF	500
SNSLSQSPCP	RELGPDPLLA			TVPQPEPETW	
P					
	HGAAAAPVSA	PTSGYQEFVH	AVEQGGTQAS	AVVGLGPPGE	600
DQ111		RI			
AGYKAFSSLL	ASSAVSPEKC	GFGASSGEEG	YKPFQDLIPG	CPGDPAPVPV	
PLFTFGLDRE	PPRSPOSSHL	PSSSPEHLGL	EPGEKVEDMP	KPPLPQEQAT	700
I BI II OLDINE	111.01 & 00	S			
DPLVDSLGSG	TVYSALTCHL	CGHLKOCHGO	EDGGQTPVMA	SPCCGCCCGD	
RSSPPTTPLR	APDPSPGGVP	LEASLCPASL	APSGISEKSK		800
A					
• •	IVNFVSVGPT	YMRVS			825
MYÖDDDÖIIK	1,141,49,911				